2015

Fluorescence Dyes & Probes

Product Catalog

Flamma® Fluors
qFlamma® Quenchers
NpFlamma® Probes
ApoFlamma® Probes
AngioFlamma® Probes
CytoFlamma® Probes

BioActs

For the light of life

As the syntheses of the chromogens/chromophores depend mainly on the experiences and expertise of the research scientists in charge, BioActs has confidence in shortening of the R&D term as well as lowering the cost of materials manufactured.

The BioActs aims at the overall R&D of the stable fluorescent materials that are able to combine with a variety of biomolecules including the protein, and also aims for a specialist company which is able to exclusively design and manufacture certain materials that are safely used in the molecular imaging systems.

Based on the successful results achieved to date for the R&Ds of the fluorescent probes, BioActs is confident that it can extend its R&D ranges not only for protein labeling but also for all range of biomolecules by utilizing all technical know-how and expertise that have been accumulated for years to date.

BioActs

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SECTION I GENERAL INFORMATION

Trademarkes of BioActs

ApoFlamma® Probes

- A great apoptosis detection Peptide
- ApoFlamma® H series, Histone H1-recognizing
- ApoFlamma® PS series, Phosphatidylserine-recognizing

NpFlamma® Probes

- Chitosan-based NIR Fluorescent probes for in-vivo Imaging
- NpFlamma ® HGC series, A fluorescent probe for molecular imaging and a drug delivery carrier to target cells
- NpFlamma ® MMP series, MMP peptide-recognizing

AngioFlamma® Probes

- Fluorescent angiogenesis probe, which contains Arg-Gly-Asp(RGD) peptide, labeled by Flamma® Fluors

Flamma® Fluors Antibodies

- Certain high-quality primary and secondary antibodies
  for flow cytometry, fluorescence imaging and western blot analysis, that are combined with various Flamma® Fluors.

CytoFlamma® Probes

- A probe group of organelle-specific fluorescent stains for fixed and live cell imaging

Flamma® Fluors Click-chemistry

- ADIBO, cupper-free click-chemical fluorescence dyes
- Alkyne/azide reactive hands

Flamma® Fluors Bead

- Functional or non-functional spherical particles, formed polystyrene, in the colloidal size range

Flamma® Fluors vinylsulfone

- Stable / reactive in water and in a wide range of pH / Temperature
- Conjugating to amine (-NH2) with no by-products

qFlamma® Black-I, Quncher dye

- Universal water-soluble quenchers
- Wide quenchable range with high molecular absorption coefficient

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Not for use in diagnostic or therapeutic procedures.

Customer service & Ordering Information

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FAX +82-32-818-8206

MAILS

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Technical support	technical@bioacts.com
Information	info@bioacts.com

International Distributors : See last pages

Terms and Conditions of Sales

Price and Sales Tax

The price of the product as indicated in the attached invoice includes all shipping and handling costs. The purchaser is solely responsible for any applicable sales, use, or similar tax and agrees to indemnify BioActs for any such tax if not properly paid by it.

Shipping

BioActs reserves the right to select the packaging and shipping method for the order, which will ensure the stability of the product as well as efficient tracing. Any damage during shipment is covered by the warranty provided herein. Title to the goods, as well as the risk of loss of the goods, passes when the goods are placed with the shipper.

Designated use and Prohibition of Resale

The product is sold for laboratory research use only, for the exclusive use of the purchaser and therefore may not be resold.

Returns Policy

Products may be returned by the purchaser within 10 days of receipt, provided that the vial(s) have not been opened, broken or otherwise altered. When the returned product is received by BioActs, the purchaser will be credited for 80% of the product's price. The purchaser should send product's back using his FedEX or etc. courier account and contact BioActs prior to shipping to receive the specific shipping information.

Limited Warranty

The Certificate of Analysis for the product, which is attached to the product, reflects its specifications, applications and conditions for use of the product. BioActs reserves the right to change the content of the Certificate of Analysis without prior notification. All products supplied by BioActs are warranted to meet the published specifications when used under normal conditions in an adequate laboratory.
BioActs does not make any other warranty or representation whatsoever, whether expressed or implied. In particular, BioActs does not make any warranty of suitability, non-infringement, merchantability or fitness for a particular purpose of any product.

Remedies and Limitations

Should any product fail to perform as warranted or for any other claims arising from or related to the purchase of BioActs's products, BioActs's liability and the purchaser's remedy are strictly limited to the purchase price or replacement, at BioActs's sole discretion, of the product.
The above referred remedy shall be the sole and exclusive remedy to the exclusion of any and all other remedies including, without limitation, claims for indirect or consequential damages.

Indemnification

The purchaser agrees to indemnify, defend and hold BioActs, its directors, officers, shareholders, employees, representatives and assignees (collectively, "Affiliates") harmless from and against any and all costs, liabilities, losses, and expenses resulting from any claim, suit action, or proceeding brought by any third party against BioActs or its Affiliates alleging or arising from or related to any breach of these Terms & Conditions by the purchaser.

Choice of Law and Jurisdiction

These Terms and Conditions will be governed by the Korean law. The competent courts in Inchonv, Korea, will have exclusive jurisdiction on any dispute regarding the interpretation of these Terms and Conditions or other claims regarding the order.

Miscellaneous

These Terms and Conditions reflect the entire understanding and agreement between BioActs and the purchaser with respect to the purchase of the product(s).

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SECTION II PRODUCTS

The BioActs aims at the overall R&D of the stable fluorescent materials that are able to combine with a variety of biomelecules including the protein, and also aims for a specialist company which is able to exclusively design and manufacture certain materials that are safely used in the molecular imaging systems.

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Not for use in diagnostic or therapeutic procedures.

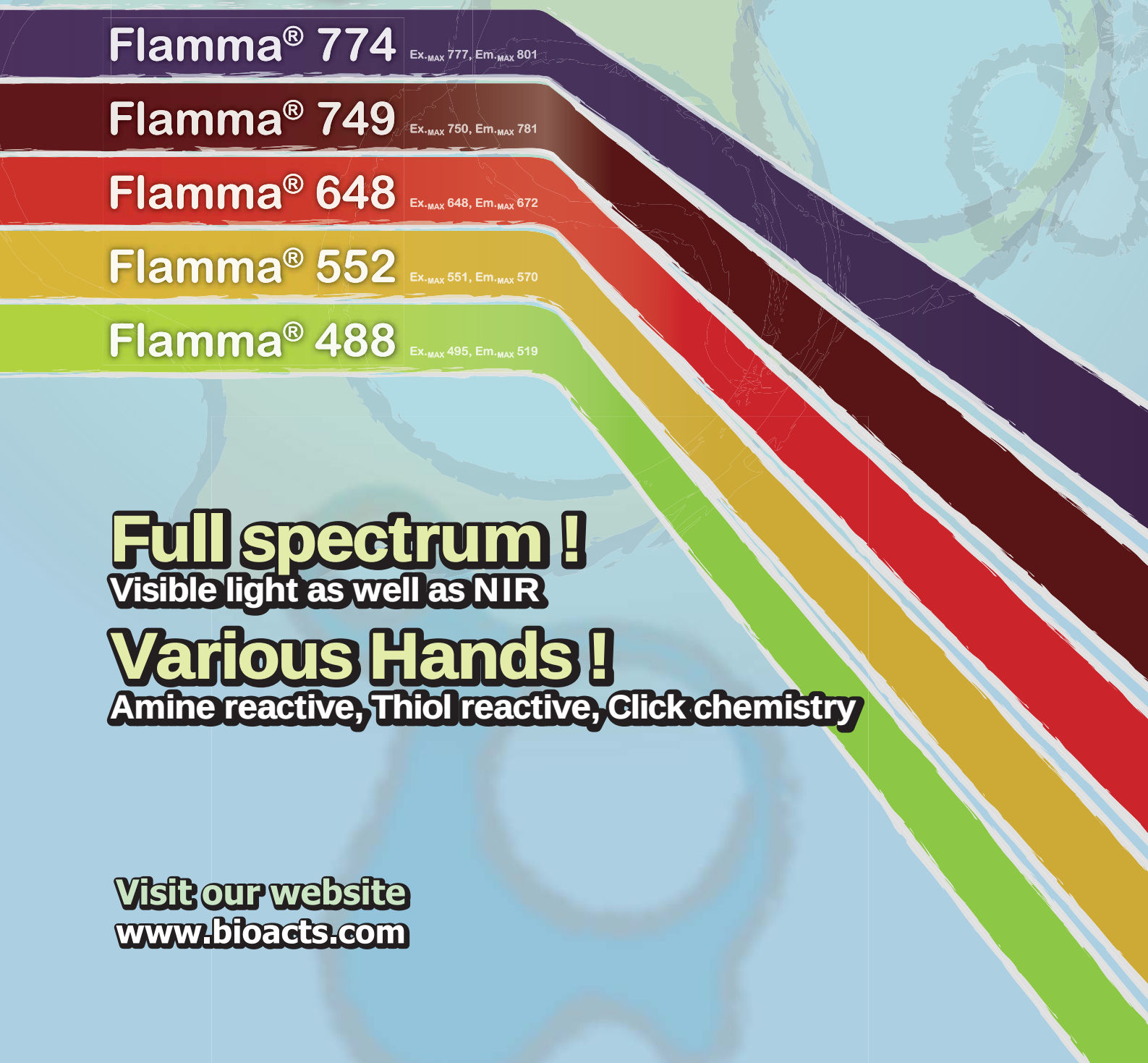
FLAMMA® FLUORS

BioActs

Bright ! High quantum yield

Stable ! Even in photobleaching and at high pH

Suitable ! Perfect compatibility



Full spectrum !
Visible light as well as NIR

Various Hands !
Amine reactive, Thiol reactive, Click chemistry

Visit our website
www.bioacts.com

Flamma® Fluors Full spectrum!

Flamma® Fluors Visible Dyes

Flamma® Fluor	λ_{Ex} (nm)	λ_{Em} (nm)	Excitation Laser Line (nm)	Replacement for
Flamma® 405	403	**455**	UV	Alexa Fluor® 405, Cascade Blue®, DyLight® 405, CF™ 405, Pacific Blue®
Flamma® 456	495	**522**	488 nm Laser	FAM, FITC, Fluorescein
Flamma® 488	494	**523**	488 nm Laser	Alexa Fluor® 488, Cy® 2, DyLight® 488, CF™ 488, ATTO 488
Flamma® 507	507	**532**	488 nm Laser	Alexa Fluor® 514, CF™ 514
Flamma® 530	530	**558**	532 nm Laser	Alexa Fluor® 532, CF™ 532, ATTO 532
Flamma® 552	551	**570**	532, 543, 546, 555 or 568 nm Laser	Alexa Fluor® 555, Cy® 3, DyLight® 549, CF™ 555, ATTO 550
Flamma® 553	554	**584**	532, 543, 546, 555 or 568 nm Laser	Alexa Fluor® 546, TRITC
Flamma® 560	560	**589**	532, 543, 546, 555 or 568 nm Laser	Alexa Fluor® 568, CF™ 568, ATTO 565, RITC
Flamma® 575	578	**606**	532, 543, 546, 555 or 568 nm Laser	Rhodamine Red
Flamma® 581	578	**595**	532, 543, 546, 555 or 568 nm Laser	Cy® 3.5, CF™ 594
Flamma® 648	648	**672**	633, 635 or 640 nm Laser	Alexa Fluor® 647, Cy® 5, DyLight® 649, CF™ 647, ATTO 647N

Flamma® Fluors NIR Dyes

Flamma® Fluor	λ_{Ex} (nm)	λ_{Em} (nm)	Excitation Laser Line (nm)	Replacement for
Flamma® 675	675	**698**	680 or 685 nm Laser	Alexa Fluor® 680, Cy® 5.5, DyLight® 680, CF™ 680, IRDye® 680LT
Flamma® 749	750	**782**	680 or 685 nm Laser	Alexa Fluor® 750, Cy® 7, DyLight® 750, CF™ 750, IRDye® 750
Flamma® 774	777	**802**	785 nm Laser	Cy® 7.5, CF™ 770
Flamma® 800	795	**817**	785 nm Laser	Alexa Fluor® 790, DyLight® 800, CF™ 790, IRDye® 800CW

Alexa Fluor®, Cascade Blue®, Pacific Blue®, and Texas Red® are registered trademarks of Invitrogen; ATTO dyes are products of ATTO-TEC GmbH; BD Horizon™ is a trademark of BD Biosciences; Cy® is a registered trademark of GE Healthcare; DyLight® is a registered trademark of Thermo Fisher Scientific; eFluor® is a registered trademark of eBioscience; IRDye® is a registered trademark of LI-COR Bioscience; LightCycler® is a registered trademark of Roche Applied Science.

Flamma® Fluors Various application

Reactive Fluorescent Dyes	
Labeling **Amines**	**Flamma® Fluors Vinylsulfone** • Stable / Reactive in water • Stable in a wide range of pH / Temperature • No by-products in conjugation
Labeling **Amines**	**Flamma® Fluors NHS ester** **Flamma® Fluors Isothiocyanate** **Flamma® Fluors Carboxylic acid**
Labeling **Thiols**	**Flamma® Fluors Maleimide**
Labeling **Carboxylic acids**	**Flamma® Fluors Amine**
Labeling **Hydroxyl group**	**Flamma® Fluors Dichlorotriazine**

Hydrophobic Fluorescent Dyes	
Hydrophobic Dyes	**Flamma® Fluors Hydrophobic** Designed to be applied in hydrophobic environment • Very soluble in organic solvent • Non-covalent binding • Far-red, Near-IR fluorescence for in-vivo
Pre-Activated Hydrophobic Dyes	**Flamma® Fluors Hydrophobic** Designed to be applied in hydrophobic environment • Very soluble in organic solvent • NHS ester, maleimide, dichlorotrizine, etc • Far-red, Near-IR fluorescence for in-vivo
Click-Chemistry Fluorescent Dyes	
Cupper free Click Chemistry	**Flamma® Fluors ADIBO** • Azadibenzocyclooctyne
Click Chemistry	**Flamma® Fluors Alkyne** **Flamma® Fluors Azide**

Contact Us

International Support

Product Support

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BioActs

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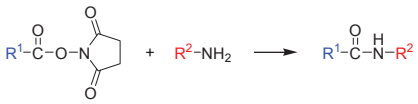
1 BIOCHEMICAL LABELING DYES

A. Reactive Fluorescence Dyes

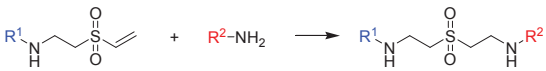
Almost biochemicals to which you want to label shall be covered with Flamma® Fluors which are combined with the fluorescent products of various wavelengths and the reactive hands

Labeling Amines

Flamma® Fluors NHS ester

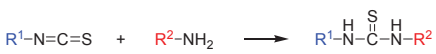


Flamma® Fluors Vinylsulfone



Flamma® Fluors Sulfo-NHS ester

Flamma® Fluors Isothiocyanate



Amine-Reactive Fluorescence Dye Products

Cat. no.	Product name	size	Ex(nm)	Em(nm)	Reactive target
CWS1025_25mg	FAM_NHS Ester	25mg	494	522	Amine
CWS1001_1mg	Flamma® 496_NHS Ester	1mg	494	523	Amine
CWS1001_5mg	Flamma® 496_NHS Ester	5mg	494	523	Amine
CWS1001_25mg	Flamma® 496_NHS Ester	25mg	494	523	Amine
PWS1122_1mg	Flamma® 552_NHS Ester	1mg	551	570	Amine
PWS1122_5mg	Flamma® 552_NHS Ester	5mg	551	570	Amine
PWS1122_25mg	Flamma® 552_NHS Ester	25mg	551	570	Amine
KWS1025_25mg	TAMRA_NHS Ester	25mg	554	584	Amine
KWS1028_25mg	Flamma® 560_NHS Ester	25mg	560	589	Amine
KOS1002_25mg	Flamma® 575_NHS Ester	25mg	578	606	Amine
PWS1415_1mg	Flamma® 581_NHS Ester	1mg	578	595	Amine
PWS1415_5mg	Flamma® 581_NHS Ester	5mg	578	595	Amine
PWS1415_25mg	Flamma® 581_NHS Ester	25mg	578	595	Amine
PWS1215_1mg	Flamma® 648_NHS Ester	1mg	648	672	Amine
PWS1215_5mg	Flamma® 648_NHS Ester	5mg	648	672	Amine
PWS1215_25mg	Flamma® 648_NHS Ester	25mg	648	672	Amine
PWS1515_1mg	Flamma® 675_NHS Ester	1mg	675	698	Amine
PWS1515_5mg	Flamma® 675_NHS Ester	5mg	675	698	Amine
PWS1515_25mg	Flamma® 675_NHS Ester	25mg	675	698	Amine
PWS1301_1mg	Flamma® 749_NHS Ester	1mg	750	782	Amine
PWS1301_5mg	Flamma® 749_NHS Ester	5mg	750	782	Amine
PWS1301_25mg	Flamma® 749_NHS Ester	25mg	750	782	Amine
PWS1603_1mg	Flamma® 774_NHS Ester	1mg	777	802	Amine
PWS1603_5mg	Flamma® 774_NHS Ester	5mg	777	802	Amine
PWS1603_25mg	Flamma® 774_NHS Ester	25mg	777	802	Amine

Cat. no.	Product name	size	Ex(nm)	Em(nm)	Reactive target
POS1604_1mg	ICG_NHS Ester	1mg	774	805	Amine
POS1604_5mg	ICG_NHS Ester	5mg	774	805	Amine
POS1604_25mg	ICG_NHS Ester	25mg	774	805	Amine
CWSN1025_25mg	FAM_Sulfo-NHS Ester	25mg	495	552	Amine
CWSN1001_1mg	Flamma® 496_Sulfo-NHS Ester	1mg	494	523	Amine
CWSN1001_5mg	Flamma® 496_Sulfo-NHS Ester	5mg	494	523	Amine
CWSN1001_25mg	Flamma® 496_Sulfo-NHS Ester	25mg	494	523	Amine
PWSN1122_1mg	Flamma® 552_Sulfo-NHS Ester	1mg	551	570	Amine
PWSN1122_5mg	Flamma® 552_Sulfo-NHS Ester	5mg	551	570	Amine
PWSN1122_25mg	Flamma® 552_Sulfo-NHS Ester	25mg	551	570	Amine
KWSN1025_25mg	TAMRA_Sulfo-NHS Ester	25mg	554	584	Amine
KWSN1028_25mg	Flamma® 560_Sulfo-NHS Ester	25mg	560	589	Amine
KOSN1002_25mg	Flamma® 575_Sulfo-NHS Ester	25mg	578	606	Amine
PWSN1415_1mg	Flamma® 581_Sulfo-NHS Ester	1mg	578	595	Amine
PWSN1415_5mg	Flamma® 581_Sulfo-NHS Ester	5mg	578	595	Amine
PWSN1415_25mg	Flamma® 581_Sulfo-NHS Ester	25mg	578	595	Amine
PWSN1215_1mg	Flamma® 648_Sulfo-NHS Ester	1mg	648	672	Amine
PWSN1215_5mg	Flamma® 648_Sulfo-NHS Ester	5mg	648	672	Amine
PWSN1215_25mg	Flamma® 648_Sulfo-NHS Ester	25mg	648	672	Amine
PWSN1515_1mg	Flamma® 675_Sulfo-NHS Ester	1mg	675	698	Amine
PWSN1515_5mg	Flamma® 675_Sulfo-NHS Ester	5mg	675	698	Amine
PWSN1515_25mg	Flamma® 675_Sulfo-NHS Ester	25mg	675	698	Amine
PWSN1301_1mg	Flamma® 749_Sulfo-NHS Ester	1mg	750	782	Amine
PWSN1301_5mg	Flamma® 749_Sulfo-NHS Ester	5mg	750	782	Amine
PWSN1301_25mg	Flamma® 749_Sulfo-NHS Ester	25mg	750	782	Amine
PWSN1603_1mg	Flamma® 774_Sulfo-NHS Ester	1mg	777	802	Amine
PWSN1603_5mg	Flamma® 774_Sulfo-NHS Ester	5mg	777	802	Amine
PWSN1603_25mg	Flamma® 774_Sulfo-NHS Ester	25mg	777	802	Amine
POSN1604_1mg	ICG_Sulfo-NHS Ester	1mg	774	805	Amine
POSN1604_5mg	ICG_Sulfo-NHS Ester	5mg	774	805	Amine
POSN1604_25mg	ICG_Sulfo-NHS Ester	25mg	774	805	Amine
CWA1020_25mg	FAM_vinylsulfone	25mg	494	522	Amine
CWA1001_1mg	Flamma® 496_vinylsulfoner	1mg	494	523	Amine
CWA1001_5mg	Flamma® 496_vinylsulfoner	5mg	494	523	Amine
CWA1001_25mg	Flamma® 496_vinylsulfoner	25mg	494	523	Amine
PWA1122_1mg	Flamma® 552_vinylsulfoner	1mg	551	570	Amine
PWA1122_5mg	Flamma® 552_vinylsulfoner	5mg	551	570	Amine
PWA1122_25mg	Flamma® 552_vinylsulfoner	25mg	551	570	Amine
KWA1020_25mg	TAMRA_vinylsulfoner	25mg	554	584	Amine
KWA1024_25mg	Flamma® 560_vinylsulfoner	25mg	560	589	Amine
KWA1042_25mg	Flamma® 575_vinylsulfoner	25mg	578	606	Amine
PWA1415_1mg	Flamma® 581_vinylsulfoner	1mg	578	595	Amine
PWA1415_5mg	Flamma® 581_vinylsulfoner	5mg	578	595	Amine
PWA1415_25mg	Flamma® 581_vinylsulfoner	25mg	578	595	Amine
PWA1215_1mg	Flamma® 648_vinylsulfoner	1mg	648	672	Amine
PWA1215_5mg	Flamma® 648_vinylsulfoner	5mg	648	672	Amine
PWA1215_25mg	Flamma® 648_vinylsulfoner	25mg	648	672	Amine
PWA1515_1mg	Flamma® 675_vinylsulfoner	1mg	675	698	Amine
PWA1515_5mg	Flamma® 675_vinylsulfoner	5mg	675	698	Amine
PWA1515_25mg	Flamma® 675_vinylsulfoner	25mg	675	698	Amine
PWA1308_1mg	Flamma® 749_vinylsulfoner	1mg	750	782	Amine
PWA1308_5mg	Flamma® 749_vinylsulfoner	5mg	750	782	Amine
PWA1308_25mg	Flamma® 749_vinylsulfoner	25mg	750	782	Amine
PWA1603_1mg	Flamma® 774_vinylsulfoner	1mg	777	802	Amine
PWA1603_5mg	Flamma® 774_vinylsulfoner	5mg	777	802	Amine

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Cat. no.	Product name	size	Ex(nm)	Em(nm)	Reactive target
PWA1603_25mg	Flamma® 774_vinylsulfoner	25mg	777	802	Amine
POA1616_1mg	ICG_vinylsulfoner	1mg	774	805	Amine
POA1616_5mg	ICG_vinylsulfoner	5mg	774	805	Amine
POA1616_25mg	ICG_vinylsulfoner	25mg	774	805	Amine
PWI1122_1mg	Flamma® 552_isothiocyanate	1mg	551	570	Amine
PWI1122_5mg	Flamma® 552_isothiocyanate	5mg	551	570	Amine
PWI1122_25mg	Flamma® 552_isothiocyanate	25mg	551	570	Amine
KWI1020_5mg	TAMRA_isothiocyanate	5mg	554	584	Amine
KWI1020_25mg	TAMRA_isothiocyanate	25mg	554	584	Amine
KWI1042_5mg	Flamma® 575_isothiocyanate	5mg	578	606	Amine
KWI1042_25mg	Flamma® 575_isothiocyanate	25mg	578	606	Amine
PWI1415_1mg	Flamma® 581_isothiocyanate	1mg	578	595	Amine
PWI1415_5mg	Flamma® 581_isothiocyanate	5mg	578	595	Amine
PWI1415_25mg	Flamma® 581_isothiocyanate	25mg	578	595	Amine
KWI1215_1mg	Flamma® 648_isothiocyanate	1mg	648	672	Amine
KWI1215_5mg	Flamma® 648_isothiocyanate	5mg	648	672	Amine
KWI1215_25mg	Flamma® 648_isothiocyanate	25mg	648	672	Amine
KWI1515_1mg	Flamma® 675_isothiocyanate	1mg	675	698	Amine
KWI1515_5mg	Flamma® 675_isothiocyanate	5mg	675	698	Amine
KWI1515_25mg	Flamma® 675_isothiocyanate	25mg	675	698	Amine
PWI1308_1mg	Flamma® 749_isothiocyanate	1mg	750	782	Amine
PWI1308_5mg	Flamma® 749_isothiocyanate	5mg	750	782	Amine
PWI1308_25mg	Flamma® 749_isothiocyanate	25mg	750	782	Amine
PWI1603_1mg	Flamma® 774_isothiocyanate	1mg	777	802	Amine
PWI1603_5mg	Flamma® 774_isothiocyanate	5mg	777	802	Amine
PWI1603_25mg	Flamma® 774_isothiocyanate	25mg	777	802	Amine
POI1616_1mg	ICG_isothiocyanate	1mg	774	805	Amine
POI1616_5mg	ICG_isothiocyanate	5mg	774	805	Amine
POI1616_25mg	ICG_isothiocyanate	25mg	774	805	Amine
PWC1101_5mg	Flamma® 552-carboxylic acid	5mg	551	570	
PWC1201_5mg	Flamma® 648_carboxylic acid	5mg	648	672	
PWC1501_5mg	Flamma® 675_carboxylic acid	5mg	675	698	
PWC1501_25mg	Flamma® 675_carboxylic acid	25mg	675	698	
PWC1308_5mg	Flamma® 749_carboxylic acid	5mg	750	782	
PWC1308_25mg	Flamma® 749_carboxylic acid	25mg	750	782	
PWC1603_5mg	Flamma® 774_carboxylic acid	5mg	777	802	
PWC1603_25mg	Flamma® 774_carboxylic acid	25mg	777	802	
POC1616_5mg	ICG_carboxylic acid	5mg		805	
POC1616_25mg	ICG_carboxylic acid	25mg	774	805	

Labeling Thiols

Flamma® Fluors Maleimide

Thiol-Reactive Fluorescence Dye Products

Cat. no.	Product name	size	Ex(nm)	Em(nm)	Reactive target
CWM1003_25mg	FAM_maleimide	25mg	495	552	Thiols
CWM1001_1mg	Flamma® 496_maleimide	1mg	494	523	Thiols
CWM1001_5mg	Flamma® 496_maleimide	5mg	494	523	Thiols
CWM1001_25mg	Flamma® 496_maleimide	25mg	494	523	Thiols
CWM1058_1mg	Flamma® 552_maleimide	1mg	551	570	Thiols
CWM1058_5mg	Flamma® 552_maleimide	5mg	551	570	Thiols
CWM1058_25mg	Flamma® 552_maleimide	25mg	551	570	Thiols
KWM1057_5mg	TAMRA_maleimide	5mg	554	584	Thiols
KWM1057_25mg	TAMRA_maleimide	25mg	554	584	Thiols
PWM1122_25mg	Flamma® 560_maleimide	25mg	560	589	Thiols
KWM1025_5mg	Flamma® 575_maleimide	5mg	578	606	Thiols
KWM1025_25mg	Flamma® 575_maleimide	25mg	578	606	Thiols
KWM1415_1mg	Flamma® 581_maleimide	1mg	578	595	Thiols
KWM1415_5mg	Flamma® 581_maleimide	5mg	578	595	Thiols
KWM1415_25mg	Flamma® 581_maleimide	25mg	578	595	Thiols
KWM1042_1mg	Flamma® 648_maleimide	1mg	648	672	Thiols
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KWM1042_25mg	Flamma® 648_maleimide	25mg	648	672	Thiols
PWM1415_1mg	Flamma® 675_maleimide	1mg	675	698	Thiols
PWM1415_5mg	Flamma® 675_maleimide	5mg	675	698	Thiols
PWM1415_25mg	Flamma® 675_maleimide	25mg	675	698	Thiols
PWM1215_1mg	Flamma® 749_maleimide	1mg	750	782	Thiols
PWM1215_5mg	Flamma® 749_maleimide	5mg	750	782	Thiols
PWM1215_25mg	Flamma® 749_maleimide	25mg	750	782	Thiols
PWM1515_1mg	Flamma® 774_maleimide	1mg	777	802	Thiols
PWM1515_5mg	Flamma® 774_maleimide	5mg	777	802	Thiols
PWM1515_25mg	Flamma® 774_maleimide	25mg	777	802	Thiols
PWM1301_1mg	ICG_maleimide	1mg	774	805	Thiols
PWM1301_5mg	ICG_maleimide	5mg	774	805	Thiols
PWM1301_25mg	ICG_maleimide	25mg	774	805	Thiols

Hydroxyl group-Reactive Fluorescence Dye Products

Cat. no.	Product name	size	Ex(nm)	Em(nm)	Reactive target
CWR2003_25mg	FAM_dichlorotriazine	25mg	495	552	Hydroxyl group
CWR1001_1mg	Flamma® 496_dichlorotriazine	1mg	494	523	Hydroxyl group
CWR1001_5mg	Flamma® 496_dichlorotriazine	5mg	494	523	Hydroxyl group
CWR1001_25mg	Flamma® 496_dichlorotriazine	25mg	494	523	Hydroxyl group
PWR2112_1mg	Flamma® 552_dichlorotriazine	1mg	551	570	Hydroxyl group
PWR2112_5mg	Flamma® 552_dichlorotriazine	5mg	551	570	Hydroxyl group
PWR2112_25mg	Flamma® 552_dichlorotriazine	25mg	551	570	Hydroxyl group

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Cat. no.	Product name	size	Ex(nm)	Em(nm)	Reactive target
KWR2025_25mg	TAMRA_dichlorotriazine	25mg	554	584	Hydroxyl group
PWR2122_25mg	Flamma® 560_dichlorotriazine	25mg	560	589	Hydroxyl group
KWR2002_25mg	Flamma® 575_dichlorotriazine	25mg	578	606	Hydroxyl group
KWR2415_1mg	Flamma® 581_dichlorotriazine	1mg	578	595	Hydroxyl group
KWR2415_5mg	Flamma® 581_dichlorotriazine	5mg	578	595	Hydroxyl group
KWR2415_25mg	Flamma® 581_dichlorotriazine	25mg	578	595	Hydroxyl group
PWR2215_1mg	Flamma® 648_dichlorotriazine	1mg	648	672	Hydroxyl group
PWR2215_5mg	Flamma® 648_dichlorotriazine	5mg	648	672	Hydroxyl group
PWR2215_25mg	Flamma® 648_dichlorotriazine	25mg	648	672	Hydroxyl group
PWR2515_1mg	Flamma® 675_dichlorotriazine	1mg	675	698	Hydroxyl group
PWR2515_5mg	Flamma® 675_dichlorotriazine	5mg	675	698	Hydroxyl group
PWR2515_25mg	Flamma® 675_dichlorotriazine	25mg	675	698	Hydroxyl group
PWR2301_1mg	Flamma® 749_dichlorotriazine	1mg	750	782	Hydroxyl group
PWR2301_5mg	Flamma® 749_dichlorotriazine	5mg	750	782	Hydroxyl group
PWR2301_25mg	Flamma® 749_dichlorotriazine	25mg	750	782	Hydroxyl group
PWR2603_1mg	Flamma® 774_dichlorotriazine	1mg	777	802	Hydroxyl group
PWR2603_5mg	Flamma® 774_dichlorotriazine	5mg	777	802	Hydroxyl group
PWR2603_25mg	Flamma® 774_dichlorotriazine	25mg	777	802	Hydroxyl group
POR2616_1mg	ICG_dichlorotriazine	1mg	774	805	Hydroxyl group
POR2616_5mg	ICG_dichlorotriazine	5mg	774	805	Hydroxyl group
POR2616_25mg	ICG_dichlorotriazine	25mg	774	805	Hydroxyl group

Aldehyde / Ketone-Reactive Fluorescence Dye Products

Cat. no.	Product name	size	Ex(nm)	Em(nm)	Reactive target
CWH1003_25mg	FAM_hydrazide	25mg	495	552	Aldehyde, Ketone
CWH1001_1mg	Flamma® 496_hydrazide	1mg	494	523	Aldehyde, Ketone
CWH1001_5mg	Flamma® 496_hydrazide	5mg	494	523	Aldehyde, Ketone
CWH1001_25mg	Flamma® 496_hydrazide	25mg	494	523	Aldehyde, Ketone
PWH1122_1mg	Flamma® 552_hydrazide	1mg	551	570	Aldehyde, Ketone
PWH1122_5mg	Flamma® 552_hydrazide	5mg	551	570	Aldehyde, Ketone
PWH1122_25mg	Flamma® 552_hydrazide	25mg	551	570	Aldehyde, Ketone
KWH1025_25mg	TAMRA_hydrazide	25mg	554	584	Aldehyde, Ketone
PWH1028_25mg	Flamma® 560_hydrazide	25mg	560	589	Aldehyde, Ketone
KWH1002_25mg	Flamma® 575_hydrazide	25mg	578	606	Aldehyde, Ketone
KWH1415_1mg	Flamma® 581_hydrazide	1mg	578	595	Aldehyde, Ketone
KWH1415_5mg	Flamma® 581_hydrazide	5mg	578	595	Aldehyde, Ketone
KWH1415_25mg	Flamma® 581_hydrazide	25mg	578	595	Aldehyde, Ketone
PWH1215_1mg	Flamma® 648_hydrazide	1mg	648	672	Aldehyde, Ketone
PWH1215_5mg	Flamma® 648_hydrazide	5mg	648	672	Aldehyde, Ketone
PWH1215_25mg	Flamma® 648_hydrazide	25mg	648	672	Aldehyde, Ketone
PWH1515_1mg	Flamma® 675_hydrazide	1mg	675	698	Aldehyde, Ketone
PWH1515_5mg	Flamma® 675_hydrazide	5mg	675	698	Aldehyde, Ketone
PWH1515_25mg	Flamma® 675_hydrazide	25mg	675	698	Aldehyde, Ketone
PWH1301_1mg	Flamma® 749_hydrazide	1mg	750	782	Aldehyde, Ketone
PWH1301_5mg	Flamma® 749_hydrazide	5mg	750	782	Aldehyde, Ketone
PWH1301_25mg	Flamma® 749_hydrazide	25mg	750	782	Aldehyde, Ketone
PWH1603_1mg	Flamma® 774_hydrazide	1mg	777	802	Aldehyde, Ketone
PWH1603_5mg	Flamma® 774_hydrazide	5mg	777	802	Aldehyde, Ketone
PWH1603_25mg	Flamma® 774_hydrazide	25mg	777	802	Aldehyde, Ketone
POH1616_1mg	ICG_hydrazide	1mg	774	805	Aldehyde, Ketone
POH1616_5mg	ICG_hydrazide	5mg	774	805	Aldehyde, Ketone
POH1616_25mg	ICG_hydrazide	25mg	774	805	Aldehyde, Ketone

Labeling Carboxylic acid

Cat. no.	Product name	size	Ex(nm)	Em(nm)	Reactive target
CWE1003_25mg	FAM_amine	25mg	495	552	Carboxylic acid
CWE1001_1mg	Flamma® 496_amine	1mg	494	523	Carboxylic acid
CWA1001_5mg	Flamma® 496_amine	5mg	494	523	Carboxylic acid
CWA1001_25mg	Flamma® 496_amine	25mg	494	523	Carboxylic acid
PWE1122_1mg	Flamma® 552_amine	1mg	551	570	Carboxylic acid
PWE1122_5mg	Flamma® 552_amine	5mg	551	570	Carboxylic acid
PWE1122_25mg	Flamma® 552_amine	25mg	551	570	Carboxylic acid
KWE1025_25mg	TAMRA_amine	25mg	554	584	Carboxylic acid
PWE1028_25mg	Flamma® 560_amine	25mg	560	589	Carboxylic acid
KWE1002_25mg	Flamma® 575_amine	25mg	578	606	Carboxylic acid
KWE1415_1mg	Flamma® 581_amine	1mg	578	595	Carboxylic acid
KWE1415_5mg	Flamma® 581_amine	5mg	578	595	Carboxylic acid
KWE1415_25mg	Flamma® 581_amine	25mg	578	595	Carboxylic acid
PWE1215_1mg	Flamma® 648_amine	1mg	648	672	Carboxylic acid
PWE1215_5mg	Flamma® 648_amine	5mg	648	672	Carboxylic acid
PWE1215_25mg	Flamma® 648_amine	25mg	648	672	Carboxylic acid
PWE1515_1mg	Flamma® 675_amine	1mg	675	698	Carboxylic acid
PWE1515_5mg	Flamma® 675_amine	5mg	675	698	Carboxylic acid
PWE1515_25mg	Flamma® 675_amine	25mg	675	698	Carboxylic acid
PWE1301_1mg	Flamma® 749_amine	1mg	750	782	Carboxylic acid
PWE1301_5mg	Flamma® 749_amine	5mg	750	782	Carboxylic acid
PWE1301_25mg	Flamma® 749_amine	25mg	750	782	Carboxylic acid
PWE1603_1mg	Flamma® 774_amine	1mg	777	802	Carboxylic acid
PWE1603_5mg	Flamma® 774_amine	5mg	777	802	Carboxylic acid
PWE1603_25mg	Flamma® 774_amine	25mg	777	802	Carboxylic acid
POE1616_1mg	ICG_amine	1mg	774	805	Carboxylic acid
POE1616_5mg	ICG_amine	5mg	774	805	Carboxylic acid
POE1616_25mg	ICG_amine	25mg	774	805	Carboxylic acid

B. Click Chemistry Dyes

Click Chemistry describes pairs of functional groups that rapidly and selectively react ("click") with each other in mild, aqueous conditions. The concept of Click Chemistry has been transformed into convenient, versatile and reliable two-step coupling procedures of two molecules A and B that are widely used in biosciences, drug discovery and material science.

Click Chemistry

Cat. no.	Product name	size	Ex(nm)	Em(nm)	Reactive target
CWK1001_1mg	Flamma® 496_alkyne	1mg	494	523	Click chemistry
CWK1001_5mg	Flamma® 496_alkyne	5mg	494	523	Click chemistry
CWK1001_25mg	Flamma® 496_alkyne	25mg	494	523	Click chemistry
PWK1122_1mg	Flamma® 552_alkyne	1mg	551	570	Click chemistry
PWK1122_5mg	Flamma® 552_alkyne	5mg	551	570	Click chemistry
PWK1122_25mg	Flamma® 552_alkyne	25mg	551	570	Click chemistry
KWK1025_25mg	TAMRA_alkyne	25mg	554	584	Click chemistry
PWK1028_25mg	Flamma® 560_alkyne	25mg	560	589	Click chemistry
KWK1002_25mg	Flamma® 575_alkyne	25mg	578	606	Click chemistry

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Cat. no.	Product name	size	Ex(nm)	Em(nm)	Reactive target
KWK1415_1mg	Flamma® 581_alkyne	1mg	578	595	Click chemistry
KWK1415_5mg	Flamma® 581_alkyne	5mg	578	595	Click chemistry
KWK1415_25mg	Flamma® 581_alkyne	25mg	578	595	Click chemistry
PWK1215_1mg	Flamma® 648_alkyne	1mg	648	672	Click chemistry
PWK1215_5mg	Flamma® 648_alkyne	5mg	648	672	Click chemistry
PWK1215_25mg	Flamma® 648_alkyne	25mg	648	672	Click chemistry
PWK1515_1mg	Flamma® 675_alkyne	1mg	675	698	Click chemistry
PWK1515_5mg	Flamma® 675_alkyne	5mg	675	698	Click chemistry
PWK1515_25mg	Flamma® 675_alkyne	25mg	675	698	Click chemistry
PWK1301_1mg	Flamma® 749_alkyne	1mg	750	782	Click chemistry
PWK1301_5mg	Flamma® 749_alkyne	5mg	750	782	Click chemistry
PWK1301_25mg	Flamma® 749_alkyne	25mg	750	782	Click chemistry
PWK1603_1mg	Flamma® 774_alkyne	1mg	777	802	Click chemistry
PWK1603_5mg	Flamma® 774_alkyne	5mg	777	802	Click chemistry
PWK1603_25mg	Flamma® 774_alkyne	25mg	777	802	Click chemistry
POK1616_1mg	ICG_alkyne	1mg	774	805	Click chemistry
POK1616_5mg	ICG_alkyne	5mg	774	805	Click chemistry
POK1616_25mg	ICG_alkyne	25mg	774	805	Click chemistry
PWK1701_25mg	FAM_PEG4-alkyne	25mg	495	552	Click chemistry
CWG1001_1mg	Flamma® 496_PEG4-alkyne	1mg	494	523	Click chemistry
CWG1001_5mg	Flamma® 496_PEG4-alkyne	5mg	494	523	Click chemistry
CWG1001_25mg	Flamma® 496_PEG4-alkyne	25mg	494	523	Click chemistry
PWG1122_1mg	Flamma® 552_PEG4-alkyne	1mg	551	570	Click chemistry
PWG1122_5mg	Flamma® 552_PEG4-alkyne	5mg	551	570	Click chemistry
PWG1122_25mg	Flamma® 552_PEG4-alkyne	25mg	551	570	Click chemistry
KWG1025_25mg	TAMRA_PEG4-alkyne	25mg	554	584	Click chemistry
PWG1028_25mg	Flamma® 560_PEG4-alkyne	25mg	560	589	Click chemistry
KWG1002_25mg	Flamma® 575_PEG4-alkyne	25mg	578	606	Click chemistry
KWG1415_1mg	Flamma® 581_PEG4-alkyne	1mg	578	595	Click chemistry
KWG1415_5mg	Flamma® 581_PEG4-alkyne	5mg	578	595	Click chemistry
KWG1415_25mg	Flamma® 581_PEG4-alkyne	25mg	578	595	Click chemistry
PWG1215_1mg	Flamma® 648_PEG4-alkyne	1mg	648	672	Click chemistry
PWG1215_5mg	Flamma® 648_PEG4-alkyne	5mg	648	672	Click chemistry
PWG1215_25mg	Flamma® 648_PEG4-alkyne	25mg	648	672	Click chemistry
PWG1515_1mg	Flamma® 675_PEG4-alkyne	1mg	675	698	Click chemistry
PWG1515_5mg	Flamma® 675_PEG4-alkyne	5mg	675	698	Click chemistry
PWG1515_25mg	Flamma® 675_PEG4-alkyne	25mg	675	698	Click chemistry
PWG1301_1mg	Flamma® 749_PEG4-alkyne	1mg	750	782	Click chemistry
PWG1301_5mg	Flamma® 749_PEG4-alkyne	5mg	750	782	Click chemistry
PWG1301_25mg	Flamma® 749_PEG4-alkyne	25mg	750	782	Click chemistry
PWG1603_1mg	Flamma® 774_PEG4-alkyne	1mg	777	802	Click chemistry
PWG1603_5mg	Flamma® 774_PEG4-alkyne	5mg	777	802	Click chemistry
PWG1603_25mg	Flamma® 774_PEG4-alkyne	25mg	777	802	Click chemistry
POG1616_1mg	ICG_PEG4-alkyne	1mg	774	805	Click chemistry
POG1616_5mg	ICG_PEG4-alkyne	5mg	774	805	Click chemistry
POG1616_25mg	ICG_PEG4-alkyne	25mg	774	805	Click chemistry

Cupper-free Click Chemistry

Cat. no.	Product name	size	Ex(nm)	Em(nm)	Reactive target
DWF1001_25mg	FAM_ADIBO	25mg	495	552	Cupper-free click chemistry
DWC1001_1mg	Flamma® 496_ADIBO	1mg	494	523	Cupper-free click chemistry
DWC1001_5mg	Flamma® 496_ADIBO	5mg	494	523	Cupper-free click chemistry

Cat. no.	Product name	size	Ex(nm)	Em(nm)	Reactive target
DWC1001_25mg	Flamma® 496_ADIBO	25mg	494	523	Cupper-free click chemistry
DWC1011_1mg	Flamma® 552_ADIBO	1mg	551	570	Cupper-free click chemistry
DWC1011_5mg	Flamma® 552_ADIBO	5mg	551	570	Cupper-free click chemistry
DWC1011_25mg	Flamma® 552_ADIBO	25mg	551	570	Cupper-free click chemistry
DWR1001_25mg	TAMRA_ADIBO	25mg	554	584	Cupper-free click chemistry
DWC1028_25mg	Flamma® 560_ADIBO	25mg	560	589	Cupper-free click chemistry
DWC1002_25mg	Flamma® 575_ADIBO	25mg	578	606	Cupper-free click chemistry
DWC1415_1mg	Flamma® 581_ADIBO	1mg	578	595	Cupper-free click chemistry
DWC1415_5mg	Flamma® 581_ADIBO	5mg	578	595	Cupper-free click chemistry
DWC1415_25mg	Flamma® 581_ADIBO	25mg	578	595	Cupper-free click chemistry
DWC1021_1mg	Flamma® 648_ADIBO	1mg	648	672	Cupper-free click chemistry
DWC1021_5mg	Flamma® 648_ADIBO	5mg	648	672	Cupper-free click chemistry
DWC1021_25mg	Flamma® 648_ADIBO	25mg	648	672	Cupper-free click chemistry
DWC1051_1mg	Flamma® 675_ADIBO	1mg	675	698	Cupper-free click chemistry
DWC1051_5mg	Flamma® 675_ADIBO	5mg	675	698	Cupper-free click chemistry
DWC1051_25mg	Flamma® 675_ADIBO	25mg	675	698	Cupper-free click chemistry
DWC1031_1mg	Flamma® 749_ADIBO	1mg	750	782	Cupper-free click chemistry
DWC1031_5mg	Flamma® 749_ADIBO	5mg	750	782	Cupper-free click chemistry
DWC1031_25mg	Flamma® 749_ADIBO	25mg	750	782	Cupper-free click chemistry
DWC1061_1mg	Flamma® 774_ADIBO	1mg	777	802	Cupper-free click chemistry
DWC1061_5mg	Flamma® 774_ADIBO	5mg	777	802	Cupper-free click chemistry
DWC1061_25mg	Flamma® 774_ADIBO	25mg	777	802	Cupper-free click chemistry
DOC1061_1mg	ICG_ADIBO	1mg	774	805	Cupper-free click chemistry
DOC1061_5mg	ICG_ADIBO	5mg	774	805	Cupper-free click chemistry
DOC1061_25mg	ICG_ADIBO	25mg	774	805	Cupper-free click chemistry

C. Nucleotide Fluoresecently Dyes

For the purpose of labeling of nucleotides, BioActs provides customers with certain important Flamma® dyes that phosphoamidite is especially inducted. Besides, in order to dye the double strand DNA, BioActs supplies various intercalating dyes and Fluorescent dNTP such as Flamma® Fluor-dUTP.

Flamma® Fluor dUTP

Cat. no	Product name	size	Ex(nm)	Em(nm)	Reactive target
CWUP1003_50nmol	Flamma® 488 _dUTP	50 nmol	494	523	Enzymatic Nucleotide synthesis
CWUP1003_250nmol	Flamma® 488 _dUTP	250 nmol	494	523	Enzymatic Nucleotide synthesis
PWUP1122_50nmol	Flamma®552 _dUTP	50 nmol	551	570	Enzymatic Nucleotide synthesis
PWUP1122_250nmol	Flamma®552 _dUTP	250 nmol	551	570	Enzymatic Nucleotide synthesis
PWUP1215_50nmol	Flamma®648 _dUTP	50 nmol	648	672	Enzymatic Nucleotide synthesis
PWUP1215_250nmol	Flamma®648 _dUTP	250 nmol	648	672	Enzymatic Nucleotide synthesis

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D. BioChemical Labeling Kits

BioActs also offers the biochemical labeling kits for labeling of the advanced Flamma® fluors, so that researchers can use them with ease. We have various labeling kits for proteins, peptides, antibodies, nucleic acids and etc.

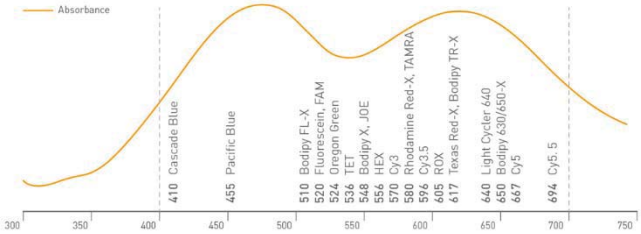
Flamma® Fluor Labeling Kits

Cat. no	Product name	size	Ex(nm)	Em(nm)	Reactive target
XPL1104_1Kit	Flamma® 552 _protein labeling kit	1Kit	551	570	Amine
XPL2104_1Kit	Flamma® 648 _protein labeling kit	1Kit	648	672	Amine
XPL3104_1Kit	Flamma® 675 _protein labeling kit	1Kit	675	698	Amine
XPL4104_1Kit	Flamma® 749 _protein labeling kit	1Kit	750	782	Amine
XPL5104_1Kit	Flamma® 774 _protein labeling kit	1Kit	777	802	Amine

E. Quenchers

qFlamma® Black-I

- Universal water-soluble quenchers
- Wide quenchable range : 400 ~ 700 nm
- High molecular absortion coefficient



Cat. no	Product name	size	Ex(nm)	Reactive target
QWS1001_1mg	qFlamma® Black-I _NHS ester	1mg	479, 630	Amine
QWS1001_5mg	qFlamma® Black-I _NHS ester	5mg	479, 630	Amine
QWS1001_25mg	qFlamma® Black-I _NHS ester	25mg	479, 630	Amine
QWSN1001_1mg	qFlamma® Black-I _sulfo-NHS ester	1mg	479, 630	Amine
QWSN1001_5mg	qFlamma® Black-I _sulfo-NHS ester	5mg	479, 630	Amine
QWSN1001_25mg	qFlamma® Black-I _sulfo-NHS ester	25mg	479, 630	Amine
QWA1001_1mg	qFlamma® Black-I _vinylsulfone	1mg	479, 630	Amine, thiol
QWA1001_5mg	qFlamma® Black-I _vinylsulfone	5mg	479, 630	Amine, thiol
QWA1001_25mg	qFlamma® Black-I _vinylsulfone	25mg	479, 630	Amine, thiol
QWC1001_1mg	qFlamma® Black-I _carboxylic acid	1mg	479, 630	-
QWC1001_5mg	qFlamma® Black-I _carboxylic acid	5mg	479, 630	-
QWC1001_25mg	qFlamma® Black-I _carboxylic acid	25mg	479, 630	-
QWM1001_1mg	qFlamma® Black-I _maleimide	1mg	479, 630	thiol
QWM1001_5mg	qFlamma® Black-I _maleimide	5mg	479, 630	thiol
QWM1001_25mg	qFlamma® Black-I _maleimide	25mg	479, 630	thiol
QWE1001_1mg	qFlamma® Black-I _amine	1mg	479, 630	-
QWE1001_5mg	qFlamma® Black-I _amine	5mg	479, 630	-
QWE1001_25mg	qFlamma® Black-I _amine	25mg	479, 630	-
QWT1001_1mg	qFlamma® Black-I _thiol	1mg	479, 630	-
QWT1001_5mg	qFlamma® Black-I _thiol	5mg	479, 630	-
QWT1001_25mg	qFlamma® Black-I _thiol	25mg	479, 630	-
QWR1001_1mg	qFlamma® Black-I _dichlorotriazine	1mg	479, 630	Hydroxy
QWR1001_5mg	qFlamma® Black-I _dichlorotriazine	5mg	479, 630	Hydroxy
QWR1001_25mg	qFlamma® Black-I _dichlorotriazine	25mg	479, 630	Hydroxy

Cat. no	Product name	size	Ex(nm)	Reactive target
QWG1001_1mg	qFlamma® Black-I _PEG4-alkyne	1mg	479, 630	Click chemistry
QWG1001_5mg	qFlamma® Black-I _PEG4-alkyne	5mg	479, 630	Click chemistry
QWG1001_25mg	qFlamma® Black-I _PEG4-alkyne	25mg	479, 630	Click chemistry
QWD1001_1mg	qFlamma® Black-I _ADIBO	1mg	479, 630	Cupper-Free Click chemistry
QWD1001_5mg	qFlamma® Black-I _ADIBO	5mg	479, 630	Cupper-Free Click chemistry
QWD1001_25mg	qFlamma® Black-I _ADIBO	25mg	479, 630	Cupper-Free Click chemistry
QWB1001_1mg	qFlamma® Black-I _biotin	1mg	479, 630	2'nd Antibody
QWB1001_5mg	qFlamma® Black-I _biotin	5mg	479, 630	2'nd Antibody
QWB1001_25mg	qFlamma® Black-I _biotin	25mg	479, 630	2'nd Antibody

F. Hydrophobic Dyes

Flamma® Fluors is supplied in the form of the hydrophobic dyes, but it can be applied as a lipophilic dyes, and to various hydrophobic dyes.

Flamma® Fluor Hydrophobic Dyes

Cat. #	Product	Ex (nm)	Em (nm)	Size
COL1001	FAM C18	495	522	1, 5 or 25 mg
POL1101	Flamma® 552 C18	551	570	1, 5 or 25 mg
KOR1001	TAMRA C18	554	584	1, 5 or 25 mg
POL1401	Flamma® 581 C18	578	595	1, 5 or 25 mg
POL1201	Flamma® 648 C18	648	672	1, 5 or 25 mg
POL1501	Flamma® 675 C18	675	698	1, 5 or 25 mg
POL1301	Flamma® 749 C18	750	782	1, 5 or 25 mg
POL1601	Flamma® 774 C18	777	802	1, 5 or 25 mg

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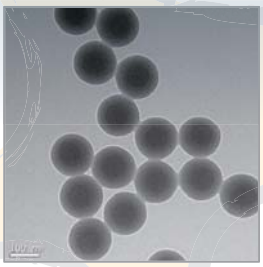
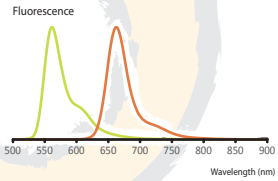
BioActs

Fluorescence Material for In Vitro Diagnosis

PS Bead Flamma® Fluors





Fluorescent polystyrene bead

Strong fluorescence nano-particle beads for diagnostic assays, protein-binding assays and cell tracers

Carboxylate surface group

Activatable for covalent coulpling of proteins

Strong fluorescence, Various size & colors

PS bead Flamma® 552	0.20, 0.50 or 6.0 µm	Ex. $_{Max}$ 551 / Em. $_{Max}$ 570
PS bead Flamma® 648	0.20, 0.50 or 6.0 µm	Ex. $_{Max}$ 648 / Em. $_{Max}$ 675

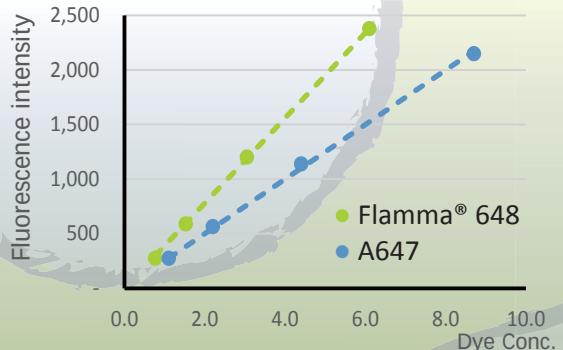
Flamma® 648 NHS ester

Bright! High quantum yields

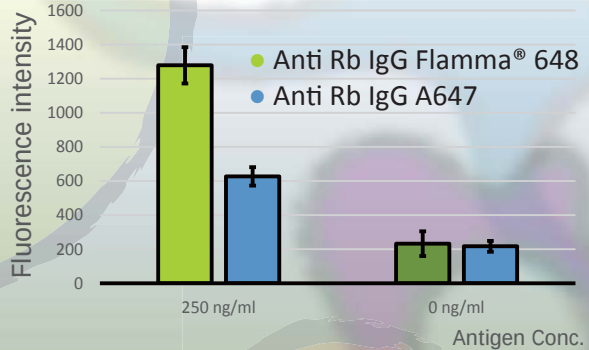
Suitable! For Red laser or LED on IVD system

Reactable! Activatable for covalent coupling proteins or antibodies

Stable! Even in photobleaching and at high pH



Relative quantum yield



ELISA application

Visit our Website
www.bioacts.com

BioActs

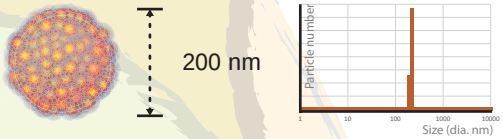
NpFlamma® Probes

NIR Fluorescent probes for in-vivo Imaging

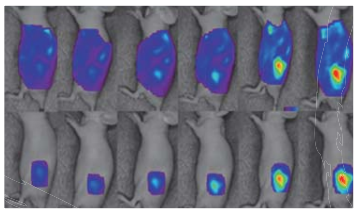
Near infrared fluorescence imaging probe, applicable to IVIS® (Perkin Elmer), SAIVI™ (Lifetechnologies), FOBI® (NeoSicence), iBox® series (UVP) and etc.

Chitosan-based nano particle

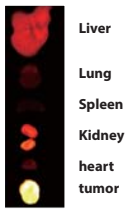
Chitosan based micelle structral nano particles, have funtionalized surface group or not



NpFlamma® HGC series



NpFlamma® HGC 675 injection for tumer detection

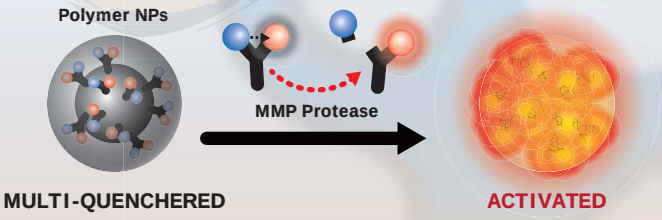


A fluorescent probe for molecular imaging for tumor by passive targeting

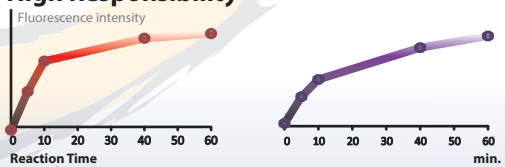
- NpFlamma® Series 648 — Ex. $_{Max}$ 648 / Em. $_{Max}$ 675
- NpFlamma® Series 675 — Ex. $_{Max}$ 675 / Em. $_{Max}$ 698
- NpFlamma® Series 749 — Ex. $_{Max}$ 750 / Em. $_{Max}$ 782
- NpFlamma® Series 774 — Ex. $_{Max}$ 777 / Em. $_{Max}$ 802

NpFlamma® MMP series

MMP tracing fluorescence probes which contain MMP specific cleavagable peptide, labeled with fluorescence dye (Flamma® Fluors series) and quencher (qFlamma® Black series) for FRET



High Responsibility

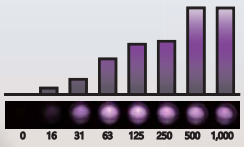


NpFlamma® MMP 675

NpFlamma® MMP 774

High Sensitibity

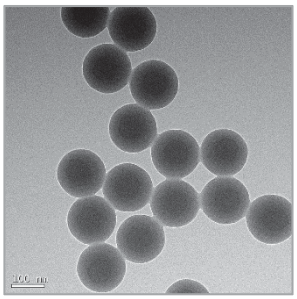
NpFlamma® MMP 675



NpFlamma® MMP 774

VISIT OUR WEBSITE
www.bioacts.com

2 NANOPARTICLES & BEADS



The bead or particle type florescent and light-emitting probe of BioActs having strong signal is available as various groups of products such as Polystyrene, Quantum Dot, Gold nanoparticle, Iron oxide nanoparticle and Europium bead. Products having various surface functional groups are being provided for convenient application of each product, and especially, the group of Quantum Dot products having various wavelength bands will broaden the scope of selections for researchers.

A. Fluorescence Beads

BioActs retains the technologies for various types of the florescent beads. NpFlamma® of Chitosan-based micelle structure is possible to be treated with the florescence and ligands on the surface, and the targeting transfer is also possible by putting medicines or optical imaging reagents inside the micelle. The polystyrene-based Flamma® beads have a strong florescence, and BioActs offers various sizes of products.

PS Bead Flamma® Fluors

Cat. no	Product name	size	Ex(nm)	Em(nm)	Reactive target
PSC1201_2%, 2ml	PS bead Flamma® 648 _200 nm, carboxylate	2%, 2ml	648	672	Protein coupling
PSC1201_2%, 10ml	PS bead Flamma® 648 _200 nm, carboxylate	2%, 10ml	648	672	Protein coupling
PSC1201_2%, 50ml	PS bead Flamma® 648 _200 nm, carboxylate	2%, 50ml	648	672	Protein coupling
PSC1202_2%, 2ml	PS bead Flamma® 648 _500 nm, carboxylate	2%, 2ml	648	672	Protein coupling
PSC1202_2%, 10ml	PS bead Flamma® 648 _500 nm, carboxylate	2%, 10ml	648	672	Protein coupling
PSC1202_2%, 50ml	PS bead Flamma® 648 _500 nm, carboxylate	2%, 50ml	648	672	Protein coupling
PSA1201_2%, 2ml	PS bead Flamma® 648 _200 nm, ADIBO	2%, 2ml	648	672	Cupper-Free Click chemistry
PSA1201_2%, 10ml	PS bead Flamma® 648 _200 nm, ADIBO	2%, 10ml	648	672	Cupper-Free Click chemistry
PSA1201_2%, 50ml	PS bead Flamma® 648 _200 nm, ADIBO	2%, 50ml	648	672	Cupper-Free Click chemistry

NpFlamma® Fluors

Cat. no	Product name	size	Ex(nm)	Em(nm)
PNC1201_10 doses	NpFlamma® _HGC 648	10 doses	648	672
PNC1201_50 doses	NpFlamma® _HGC 648	50 doses	648	672
PNC1201_250 doses	NpFlamma® _HGC 648	250 doses	648	672
PNC1401_10 doses	NpFlamma® _HGC 675	10 doses	675	698
PNC1401_50 doses	NpFlamma® _HGC 675	50 doses	675	698
PNC1401_250 doses	NpFlamma® _HGC 675	250 doses	675	698
PNC1301_10 doses	NpFlamma® _HGC 749	10 doses	750	782
PNC1301_50 doses	NpFlamma® _HGC 749	50 doses	750	782
PNC1301_250 doses	NpFlamma® _HGC 749	250 doses	750	782
PNC1601_10 doses	NpFlamma® _HGC 774	10 doses	777	802
PNC1601_50 doses	NpFlamma® _HGC 774	50 doses	777	802
PNC1601_250 doses	NpFlamma® _HGC 774	250 doses	777	802

3 FLUORESCENT PROBES

Based on Flamma® series developed with its advanced fluorescent technology, BioActs offers reagents and kits for fluorescence microscopy, immunohistochemistry, in situ hybridization, high content screening, cell-based reporter assays and small animal in vivo imaging (SAIVI). The enhanced imaging performance of the products will lead you to more stabilized development environment.

CytoFlamma® Series

CytoFlamma® series of BioActs is a product group of organelle-specific fluorescent stains for fixed and live cell imaging. Experience advanced fluorescence imaging and immunofluorescence experiments with CytoFlamma® series completed by enhanced fluorescent technology of BioActs.

A. Cell & Organelle Staining Dyes

Cat. no.	Product name	size	Ex(nm)	Em(nm)	Target
RCS6001_10 X 50 ug	CytoFlamma® 488 _Cell-membrane (Live)	10 X 50 ug	494	523	Cell membrane
RCS6001_20 X 50 ug	CytoFlamma® 488 _Cell-membrane (Live)	20 X 50 ug	494	523	Cell membrane
RCS6001_1mg	CytoFlamma® 488 _Cell-membrane (Live)	1mg	494	523	Cell membrane
RCS1001_10 X 50 ug	CytoFlamma® 552 _Cell-membrane (Live)	10 X 50 ug	551	570	Cell membrane
RCS1001_20 X 50 ug	CytoFlamma® 552 _Cell-membrane (Live)	20 X 50 ug	551	570	Cell membrane
RCS1001_1mg	CytoFlamma® 552 _Cell-membrane (Live)	1mg	551	570	Cell membrane
RCS2001_10 X 50 ug	CytoFlamma® 648 _Cell-membrane (Live)	10 X 50 ug	648	672	Cell membrane
RCS2001_20 X 50 ug	CytoFlamma® 648 _Cell-membrane (Live)	20 X 50 ug	648	672	Cell membrane
RCS2001_1mg	CytoFlamma® 648 _Cell-membrane (Live)	1mg	648	672	Cell membrane
RCS3001_10 X 50 ug	CytoFlamma® 675 _Cell-membrane (Live)	10 X 50 ug	675	698	Cell membrane
RCS3001_20 X 50 ug	CytoFlamma® 675 _Cell-membrane (Live)	20 X 50 ug	675	698	Cell membrane
RCS3001_1mg	CytoFlamma® 675 _Cell-membrane (Live)	1mg	675	698	Cell membrane

B. Fluorescence Proteins / Peptides

BioActs is providing multi-color imaging bases through probes with conjugation of various Flamma® series. Complete your best fluorescence imaging and immunofluorescence experiments

MORE INFORMATION

BioActs web site : www.BioActs.com

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Unless otherwise specified, all products are for Research Use Only.
Not for use in diagnostic or therapeutic procedures.

4 ANTIBODIES

The BioActs' high-specific antibodies have a wide range of product spectrums according to the customers' needs. The primary and secondary antibodies labeled by the florescence of the BioActs' advanced technologies shall yield the best desirable results in your experiments, and with the fluorescence secondary detectors such as streptavidin that is labeled with various fluorescence, you shall attain the desired effects and experiences.

A. ImmunoFluorescence / Primary Antibodies

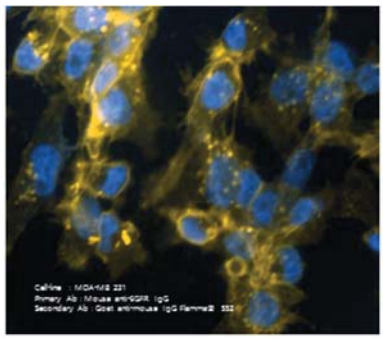
BioActs has established a wide range of antibodies library according to the customer's and researcher's needs so that they can apply the data to their research area and pathway. Furthermore, the antibodies are also supplied in certain forms for the immunofluorescence that are conjugated with various fluorescence dyes other than Flamma® dyes

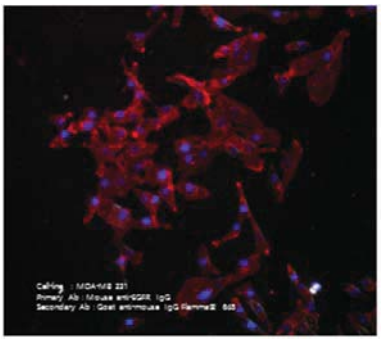
MORE INFORMATION

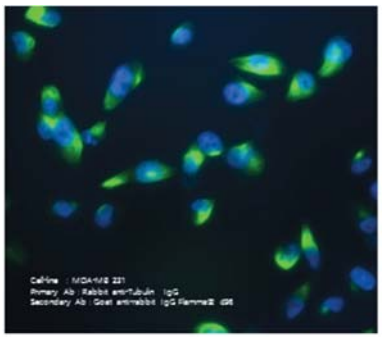
BioActs web site : www.BioActs.com

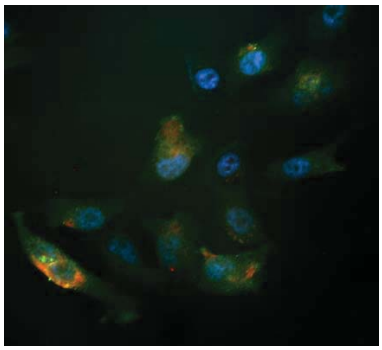
Flamma® Fluorescence Secondary Antibodies

The BioActs' secondary antibodies are supplied together with certain antibodies that are labeled by Flamma® dyes, HRP, AP or others for the purpose of the flow cytometry, fluorescence imaging or IB analysis, of course, including the native antibodies.









RSA1240, goat anti-rabbit IgG Flamma® 496 (Green)

RSA1160, goat anti-mouse IgG Flamma® 648 (Red)

ICC/IF image of MDA-MB 231 cells. The cells were 4% PFA fixed (5 min) and then incubated in 1%BSA / PBS in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibodies, mouse anti-alpha-tubulin IgG and rabbit anti-EGFR IgG, 2h at +25°C. The secondary antibodies were RSA1240(green), goat anti-rabbit IgG Flamma® 496, and RSA1160(red) , goat anti-mouse IgG Flamma® 648 used at 1/1,000 for 1h each, was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

B. Secondary Antibodies & Detection

Flamma® Fluorescence Secondary Antibodies

Cat. no.	Product name	size	Ex(nm)	Em(nm)	Reactive target
RSA1141_0.5mg	Goat anti-mouse IgG _Flamma® 488	0.5mg	494	523	Mouse IgG
RSA1141_1mg	Goat anti-mouse IgG _Flamma® 488	1mg	494	523	Mouse IgG
RSA1141_2mg	Goat anti-mouse IgG _Flamma® 488	2mg	494	523	Mouse IgG
RSA1151_0.5mg	Goat anti-mouse IgG _Flamma® 552	0.5mg	551	570	Mouse IgG
RSA1151_1mg	Goat anti-mouse IgG _Flamma® 552	1mg	551	570	Mouse IgG
RSA1151_2mg	Goat anti-mouse IgG _Flamma® 552	2mg	551	570	Mouse IgG
RSA1161_0.5mg	Goat anti-mouse IgG _Flamma® 648	0.5mg	648	672	Mouse IgG
RSA1161_1mg	Goat anti-mouse IgG _Flamma® 648	1mg	648	672	Mouse IgG
RSA1161_2mg	Goat anti-mouse IgG _Flamma® 648	2mg	648	672	Mouse IgG
RSA1171_0.5mg	Goat anti-mouse IgG _Flamma® 675	0.5mg	675	698	Mouse IgG
RSA1171_1mg	Goat anti-mouse IgG _Flamma® 675	1mg	675	698	Mouse IgG
RSA1171_2mg	Goat anti-mouse IgG _Flamma® 675	2mg	675	698	Mouse IgG
RSA1101_0.5mg	Goat anti-mouse IgG _Flamma® 749	0.5mg	750	782	Mouse IgG
RSA1101_1mg	Goat anti-mouse IgG _Flamma® 749	1mg	750	782	Mouse IgG
RSA1101_2mg	Goat anti-mouse IgG _Flamma® 749	2mg	750	782	Mouse IgG
RSA1181_0.5mg	Goat anti-mouse IgG _Flamma® ICG	0.5mg	774	805	Mouse IgG
RSA1181_1mg	Goat anti-mouse IgG _Flamma® ICG	1mg	774	805	Mouse IgG
RSA1181_2mg	Goat anti-mouse IgG _Flamma® ICG	2mg	774	805	Mouse IgG
RSA1541_0.5mg	Goat anti-rat IgG _Flamma®488	0.5mg	494	523	Rat IgG
RSA1541_1mg	Goat anti-rat IgG _Flamma®488	1mg	494	523	Rat IgG
RSA1541_2mg	Goat anti-rat IgG _Flamma®488	2mg	494	523	Rat IgG
RSA1551_0.5mg	Goat anti-rat IgG _Flamma®552	0.5mg	551	570	Rat IgG
RSA1551_1mg	Goat anti-rat IgG _Flamma®552	1mg	551	570	Rat IgG
RSA1551_2mg	Goat anti-rat IgG _Flamma®552	2mg	551	570	Rat IgG
RSA1561_0.5mg	Goat anti-rat IgG _Flamma®648	0.5mg	648	672	Rat IgG
RSA1561_1mg	Goat anti-rat IgG _Flamma®648	1mg	648	672	Rat IgG
RSA1561_2mg	Goat anti-rat IgG _Flamma®648	2mg	648	672	Rat IgG
RSA1571_0.5mg	Goat anti-rat IgG _Flamma®675	0.5mg	675	698	Rat IgG
RSA1571_1mg	Goat anti-rat IgG _Flamma®675	1mg	675	698	Rat IgG
RSA1571_2mg	Goat anti-rat IgG _Flamma®675	2mg	675	698	Rat IgG
RSA1501_0.5mg	Goat anti-rat IgG _Flamma®749	0.5mg	750	782	Rat IgG
RSA1501_1mg	Goat anti-rat IgG _Flamma®749	1mg	750	782	Rat IgG
RSA1501_2mg	Goat anti-rat IgG _Flamma®749	2mg	750	782	Rat IgG
RSA1581_0.5mg	Goat anti-rat IgG _Flamma®ICG	0.5mg	774	805	Rat IgG
RSA1581_1mg	Goat anti-rat IgG _Flamma®ICG	1mg	774	805	Rat IgG
RSA1581_2mg	Goat anti-rat IgG _Flamma®ICG	2mg	774	805	Rat IgG
RSA1241_0.5mg	Goat anti-rabbit IgG _Flamma®488	0.5mg	494	523	Rabbit IgG
RSA1241_1mg	Goat anti-rabbit IgG _Flamma®488	1mg	494	523	Rabbit IgG
RSA1241_2mg	Goat anti-rabbit IgG _Flamma®488	2mg	494	523	Rabbit IgG
RSA1251_0.5mg	Goat anti-rabbit IgG _Flamma®552	0.5mg	551	570	Rabbit IgG
RSA1251_1mg	Goat anti-rabbit IgG _Flamma®552	1mg	551	570	Rabbit IgG
RSA1251_2mg	Goat anti-rabbit IgG _Flamma®552	2mg	551	570	Rabbit IgG
RSA1261_0.5mg	Goat anti-rabbit IgG _Flamma®648	0.5mg	648	672	Rabbit IgG
RSA1261_1mg	Goat anti-rabbit IgG _Flamma®648	1mg	648	672	Rabbit IgG
RSA1261_2mg	Goat anti-rabbit IgG _Flamma®648	2mg	648	672	Rabbit IgG
RSA1271_0.5mg	Goat anti-rabbit IgG _Flamma®675	0.5mg	675	698	Rabbit IgG
RSA1271_1mg	Goat anti-rabbit IgG _Flamma®675	1mg	675	698	Rabbit IgG
RSA1271_2mg	Goat anti-rabbit IgG _Flamma®675	2mg	675	698	Rabbit IgG
RSA1201_0.5mg	Goat anti-rabbit IgG _Flamma®749	0.5mg	750	782	Rabbit IgG
RSA1201_1mg	Goat anti-rabbit IgG _Flamma®749	1mg	750	782	Rabbit IgG

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Not for use in diagnostic or therapeutic procedures.

Cat. no.	Product name	size	Ex(nm)	Em(nm)	Reactive target
RSA1201_2mg	Goat anti-rabbit IgG _Flamma®749	2mg	750	782	Rabbit IgG
RSA1281_0.5mg	Goat anti-rabbit IgG _Flamma®ICG	0.5mg	774	805	Rabbit IgG
RSA1281_1mg	Goat anti-rabbit IgG _Flamma®ICG	1mg	774	805	Rabbit IgG
RSA1281_2mg	Goat anti-rabbit IgG _Flamma®ICG	2mg	774	805	Rabbit IgG
RSA4441_0.5mg	Rabbit anti-goat IgG _Flamma®488	0.5mg	494	523	Goat IgG
RSA4441_1mg	Rabbit anti-goat IgG _Flamma®488	1mg	494	523	Goat IgG
RSA4441_2mg	Rabbit anti-goat IgG _Flamma®488	2mg	494	523	Goat IgG
RSA4451_0.5mg	Rabbit anti-goat IgG _Flamma®552	0.5mg	551	570	Goat IgG
RSA4451_1mg	Rabbit anti-goat IgG _Flamma®552	1mg	551	570	Goat IgG
RSA4451_2mg	Rabbit anti-goat IgG _Flamma®552	2mg	551	570	Goat IgG
RSA4461_0.5mg	Rabbit anti-goat IgG _Flamma®648	0.5mg	648	672	Goat IgG
RSA4461_1mg	Rabbit anti-goat IgG _Flamma®648	1mg	648	672	Goat IgG
RSA4461_2mg	Rabbit anti-goat IgG _Flamma®648	2mg	648	672	Goat IgG
RSA4471_0.5mg	Rabbit anti-goat IgG _Flamma®675	0.5mg	675	698	Goat IgG
RSA4471_1mg	Rabbit anti-goat IgG _Flamma®675	1mg	675	698	Goat IgG
RSA4471_2mg	Rabbit anti-goat IgG _Flamma®675	2mg	675	698	Goat IgG
RSA4401_0.5mg	Rabbit anti-goat IgG _Flamma®749	0.5mg	750	782	Goat IgG
RSA4401_1mg	Rabbit anti-goat IgG _Flamma®749	1mg	750	782	Goat IgG
RSA4401_2mg	Rabbit anti-goat IgG _Flamma®749	2mg	750	782	Goat IgG
RSA4481_0.5mg	Rabbit anti-goat IgG _Flamma®ICG	0.5mg	774	805	Goat IgG
RSA4481_1mg	Rabbit anti-goat IgG _Flamma®ICG	1mg	774	805	Goat IgG
RSA4481_2mg	Rabbit anti-goat IgG _Flamma®ICG	2mg	774	805	Goat IgG

Flamma® Fluorescence Secondary Detection

Cat. no.	Product name	size	Ex(nm)	Em(nm)	Reactive target
RFP0501_5mg	Avidin _FITC	5mg	495	522	Biotin
RFP0501_25mg	Avidin _FITC	25mg	495	522	Biotin
RFP0501_1mg	Avidin _Flamma® 496	1mg	494	523	Biotin
RFP0501_5mg	Avidin _Flamma® 496	5mg	494	523	Biotin
RFP0501_25mg	Avidin _Flamma® 496	25mg	494	523	Biotin
RFP0505_1mg	Avidin _Flamma® 552	1mg	551	570	Biotin
RFP0505_5mg	Avidin _Flamma® 552	5mg	551	570	Biotin
RFP0505_25mg	Avidin _Flamma® 552	25mg	551	570	Biotin
RFP0501_5mg	Avidin _TAMRA	5mg	554	584	Biotin
RFP0501_25mg	Avidin _TAMRA	25mg	554	584	Biotin
RFP0511_1mg	Avidin _Flamma® 648	1mg	648	672	Biotin
RFP0511_5mg	Avidin _Flamma® 648	5mg	648	672	Biotin
RFP0511_25mg	Avidin _Flamma® 648	25mg	648	672	Biotin
RFP0512_1mg	Avidin _Flamma® 675	1mg	675	698	Biotin
RFP0512_5mg	Avidin _Flamma® 675	5mg	675	698	Biotin
RFP0512_25mg	Avidin _Flamma® 675	25mg	675	698	Biotin
RFP0513_1mg	Avidin _Flamma® 749	1mg	750	782	Biotin
RFP0513_5mg	Avidin _Flamma® 749	5mg	750	782	Biotin
RFP0513_25mg	Avidin _Flamma® 749	25mg	750	782	Biotin
RFP0514_1mg	Avidin _Flamma® 774	1mg	777	802	Biotin
RFP0514_5mg	Avidin _Flamma® 774	5mg	777	802	Biotin
RFP0514_25mg	Avidin _Flamma® 774	25mg	777	802	Biotin
RFP0515_1mg	Avidin _Flamma® ICG	1mg	774	805	Biotin
RFP0515_5mg	Avidin _Flamma® ICG	5mg	774	805	Biotin
RFP0515_25mg	Avidin _Flamma® ICG	25mg	774	805	Biotin
RFP0601_5mg	biotin _FITC	5mg	495	522	Avidin, Streptavidin
RFP0601_25mg	biotin _FITC	25mg	495	522	Avidin, Streptavidin

Cat. no.	Product name	size	Ex(nm)	Em(nm)	Reactive target
RFP0616_1mg	biotin _Flamma® 496	1mg	494	523	Avidin, Streptavidin
RFP0616_5mg	biotin _Flamma® 496	5mg	494	523	Avidin, Streptavidin
RFP0616_25mg	biotin _Flamma® 496	25mg	494	523	Avidin, Streptavidin
RFP0605_1mg	biotin _Flamma® 552	1mg	551	570	Avidin, Streptavidin
RFP0605_5mg	biotin _Flamma® 552	5mg	551	570	Avidin, Streptavidin
RFP0605_25mg	biotin _Flamma® 552	25mg	551	570	Avidin, Streptavidin
RFP0607_5mg	biotin _TAMRA	5mg	554	584	Avidin, Streptavidin
RFP0607_25mg	biotin _TAMRA	25mg	554	584	Avidin, Streptavidin
RFP0611_1mg	biotin _Flamma® 648	1mg	648	672	Avidin, Streptavidin
RFP0611_5mg	biotin _Flamma® 648	5mg	648	672	Avidin, Streptavidin
RFP0611_25mg	biotin _Flamma® 648	25mg	648	672	Avidin, Streptavidin
RFP0612_1mg	biotin _Flamma® 675	1mg	675	698	Avidin, Streptavidin
RFP0612_5mg	biotin _Flamma® 675	5mg	675	698	Avidin, Streptavidin
RFP0612_25mg	biotin _Flamma® 675	25mg	675	698	Avidin, Streptavidin
RFP0613_1mg	biotin _Flamma® 749	1mg	750	782	Avidin, Streptavidin
RFP0613_5mg	biotin _Flamma® 749	5mg	750	782	Avidin, Streptavidin
RFP0613_25mg	biotin _Flamma® 749	25mg	750	782	Avidin, Streptavidin
RFP0614_1mg	biotin _Flamma® 774	1mg	777	802	Avidin, Streptavidin
RFP0614_5mg	biotin _Flamma® 774	5mg	777	802	Avidin, Streptavidin
RFP0614_25mg	biotin _Flamma® 774	25mg	777	802	Avidin, Streptavidin
RFP0615_1mg	biotin _Flamma® ICG	1mg	774	805	Avidin, Streptavidin
RFP0615_5mg	biotin _Flamma® ICG	5mg	774	805	Avidin, Streptavidin
RFP0615_25mg	biotin _Flamma® ICG	25mg	774	805	Avidin, Streptavidin
RFP0701_5mg	Streptavidin _FITC	5mg	495	522	Biotin
RFP0701_25mg	Streptavidin _FITC	25mg	495	522	Biotin
RFP0716_1mg	Streptavidin _Flamma® 496	1mg	494	523	Biotin
RFP0716_5mg	Streptavidin _Flamma® 496	5mg	494	523	Biotin
RFP0716_25mg	Streptavidin _Flamma® 496	25mg	494	523	Biotin
RFP0705_1mg	Streptavidin _Flamma® 552	1mg	551	570	Biotin
RFP0705_5mg	Streptavidin _Flamma® 552	5mg	551	570	Biotin
RFP0705_25mg	Streptavidin _Flamma® 552	25mg	551	570	Biotin
RFP0707_5mg	Streptavidin _TAMRA	5mg	554	584	Biotin
RFP0707_25mg	Streptavidin _TAMRA	25mg	554	584	Biotin
RFP0711_1mg	Streptavidin_Flamma® 648	1mg	648	672	Biotin
RFP0711_5mg	Streptavidin _Flamma® 648	5mg	648	672	Biotin
RFP0711_25mg	Streptavidin _Flamma® 648	25mg	648	672	Biotin
RFP0712_1mg	Streptavidin _Flamma® 675	1mg	675	698	Biotin
RFP0712_5mg	Streptavidin _Flamma® 675	5mg	675	698	Biotin
RFP0712_25mg	Streptavidin _Flamma® 675	25mg	675	698	Biotin
RFP0713_1mg	Streptavidin _Flamma® 749	1mg	750	782	Biotin
RFP0713_5mg	Streptavidin _Flamma® 749	5mg	750	782	Biotin
RFP0713_25mg	Streptavidin _Flamma® 749	25mg	750	782	Biotin
RFP0714_1mg	Streptavidin_Flamma® 774	1mg	777	802	Biotin
RFP0714_5mg	Streptavidin _Flamma® 774	5mg	777	802	Biotin
RFP0714_25mg	Streptavidin _Flamma® 774	25mg	777	802	Biotin
RFP0715_1mg	Streptavidin _Flamma® ICG	1mg	774	805	Biotin
RFP0715_5mg	Streptavidin_Flamma® ICG	5mg	774	805	Biotin
RFP0715_25mg	Streptavidin _Flamma® ICG	25mg	774	805	Biotin

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5 IN-VIVO IMAGING

For effective, stable and clear in vivo imaging, BioActs, with its advanced fluorescent technology, provides medicines developed with various materials and forms combined with advanced fluorescent technology of BioActs as well as bio-markers and probes with nanoparticle or bead form having high fluorescence and light emitting signal. Also the surface modification nanoparticle bio-markers of BioActs, with various modification options, can be extended for application to searching paths of medicines and verification of effects of medicines.

A. ICG (Indocyanine Green) & Near Infrared Dyes

BioActs has enforced signal intensity of currently commercialized ICG, enabling researchers to utilize the product in various fields. The enforced ICG shows strong effects in optical in vivo imaging system(such as IVIS), and shows no toxicity since it is promptly eliminated in the body so that researchers can safely use the product. Flamma® series with long wavelength band completed by advanced fluorescent technology of BioActs can be applied to in vivo imaging as well as in vitro imaging at the same time. Also, BioActs continually builds and provides database of data optimized for various optical in vivo imaging systems to meet the needs of researchers for exact and clear research results.

Flamma® Near-Infaraed Fluors

Cat. #	Product	Ex (nm)	Em (nm)	Size
PWS1515	Flamma® 675 NHS ester	675	698	1, 5 or 25 mg
PWS1301	Flamma® 749 NHS ester	750	782	1, 5 or 25 mg
pws1603	Flamma® 774 NHS ester	777	802	1, 5 or 25 mg
POS1604	Flamma® 800 NHS ester	795	817	1, 5 or 25 mg
PWM1515	Flamma® 675 Maleimide	675	698	1, 5 or 25 mg
PWM1301	Flamma® 749 Maleimide	750	782	1, 5 or 25 mg
PWM1603	Flamma® 774 Maleimide	777	802	1, 5 or 25 mg
POM1616	Flamma® 800 Maleimide	795	817	1, 5 or 25 mg
DWC1051	Flamma® 675 ADIBO	675	698	1, 5 or 25 mg
DWC1031	Flamma® 749 ADIBO	750	782	1, 5 or 25 mg
DWC1061	Flamma® 774 ADIBO	777	802	1, 5 or 25 mg
DOC1061	Flamma® 800 ADIBO	795	817	1, 5 or 25 mg
PWZ1515	Flamma® 675 Azide	675	698	1, 5 or 25 mg
PWZ1301	Flamma® 749 Azide	750	782	1, 5 or 25 mg
PWZ1603	Flamma® 774 Azide	777	802	1, 5 or 25 mg
POZ1616	Flamma® 800 Azide	795	817	1, 5 or 25 mg

Indocyanine Green

Cat. no.	Product name	size	Ex(nm)	Em(nm)
RFP0815_25mg	Indo cyanine green (ICG)	25mg	774	805
RFP0815_100mg	Indo cyanine green (ICG)	100mg	774	805
RFP0815_1000mg	Indo cyanine green (ICG)	1000mg	774	805

B. Luciferin & Bioluminescence

Luciferin is a small molecule substrate that is oxidized by luciferase to produce oxyluciferin and light. This chemoluminescence/bioluminescence process requires ATP and oxygen. This process is utilized in research for a number of in vitro and in vivo imaging applications. BioActs offers high quality in vivo grade luciferin (99.8% pure) stabilized with either sodium or potassium salts, at an incredibly competitive price.

MORE INFORMATION

BioActs web site : www.BioActs.com

C. Vascular / Targeted / Activatable Probes

Angiogenesis detection probes

Cat. no.	Product name	size	Ex(nm)	Em(nm)	Reactive target
ARW1025_0.5mg	AngioFlamma® _FAM	0.5mg	495	522	Angiogenesis
ARW1025_1mg	AngioFlamma® _FAM	1mg	495	522	Angiogenesis
ARW1025_5mg	AngioFlamma® _FAM	5mg	495	522	Angiogenesis
ARW1001_0.5mg	AngioFlamma® _Flamma® 507	0.5mg	507	532	Angiogenesis
ARW1001_1mg	AngioFlamma® _Flamma® 507	1mg	507	532	Angiogenesis
ARW1001_5mg	AngioFlamma® _Flamma® 507	5mg	507	532	Angiogenesis
ARO1001_0.5mg	AngioFlamma® _Flamma® 530	0.5mg	530	558	Angiogenesis
ARO1001_1mg	AngioFlamma® _Flamma® 530	1mg	530	558	Angiogenesis
ARO1001_5mg	AngioFlamma® _Flamma® 530	5mg	530	558	Angiogenesis
ARW1011_0.5mg	AngioFlamma® _Flamma® 552	0.5mg	551	570	Angiogenesis
ARW1011_1mg	AngioFlamma® _Flamma® 552	1mg	551	570	Angiogenesis
ARW1011_5mg	AngioFlamma® _Flamma® 552	5mg	551	570	Angiogenesis
ARR1001_0.5mg	AngioFlamma® _TAMRA	0.5mg	554	584	Angiogenesis
ARR1001_1mg	AngioFlamma® _TAMRA	1mg	554	584	Angiogenesis
ARR1001_5mg	AngioFlamma® _TAMRA	5mg	554	584	Angiogenesis
ARW1028_0.5mg	AngioFlamma® _Flamma® 560	0.5mg	560	589	Angiogenesis
ARW1028_1mg	AngioFlamma® _Flamma® 560	1mg	560	589	Angiogenesis
ARW1028_5mg	AngioFlamma® _Flamma® 560	5mg	560	589	Angiogenesis
ARO1002_0.5mg	AngioFlamma® _Flamma® 575	0.5mg	578	606	Angiogenesis
ARO1002_1mg	AngioFlamma® _Flamma® 575	1mg	578	606	Angiogenesis
ARO1002_5mg	AngioFlamma® _Flamma® 575	5mg	578	606	Angiogenesis
ARW1415_0.5mg	AngioFlamma® _Flamma® 581	0.5mg	578	595	Angiogenesis
ARW1415_1mg	AngioFlamma® _Flamma® 581	1mg	578	595	Angiogenesis
ARW1415_5mg	AngioFlamma® _Flamma® 581	5mg	578	595	Angiogenesis
ARW1215_0.5mg	AngioFlamma® _Flamma® 648	0.5mg	648	672	Angiogenesis
ARW1215_1mg	AngioFlamma® _Flamma® 648	1mg	648	672	Angiogenesis
ARW1215_5mg	AngioFlamma® _Flamma® 648	5mg	648	672	Angiogenesis
ARW1501_0.5mg	AngioFlamma® _Flamma® 675	0.5mg	675	698	Angiogenesis
ARW1501_1mg	AngioFlamma® _Flamma® 675	1mg	675	698	Angiogenesis
ARW1501_5mg	AngioFlamma® _Flamma® 675	5mg	675	698	Angiogenesis
ARW1301_0.5mg	AngioFlamma® _Flamma® 749	0.5mg	750	782	Angiogenesis
ARW1301_1mg	AngioFlamma® _Flamma® 749	1mg	750	782	Angiogenesis

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Not for use in diagnostic or therapeutic procedures.

Cat. no.	Product name	size	Ex(nm)	Em(nm)	Reactive target
ARW1301_5mg	AngioFlamma® _Flamma® 749	5mg	750	782	Angiogenesis
ARW1601_0.5mg	AngioFlamma® _Flamma® 774	0.5mg	777	802	Angiogenesis
ARW1601_1mg	AngioFlamma® _Flamma® 774	1mg	777	802	Angiogenesis
ARW1601_5mg	AngioFlamma® _Flamma® 774	5mg	777	802	Angiogenesis
ARO1601_0.5mg	AngioFlamma® _Flamma® ICG	0.5mg	774	805	Angiogenesis
ARO1601_1mg	AngioFlamma® _Flamma® ICG	1mg	774	805	Angiogenesis
ARO1601_5mg	AngioFlamma® _Flamma® ICG	5mg	774	805	Angiogenesis
RCS0101_5mg	BSA _FAM	5mg	495	522	vascular
RCS0102_5mg	BSA _Flamma® 488	5mg	494	523	vascular
RCS0103_5mg	BSA _Flamma® 507	5mg	507	532	vascular
RCS0104_5mg	BSA _Flamma® 530	5mg	530	558	vascular
RCS0105_5mg	BSA _Flamma® 552	5mg	551	570	vascular
RCS0107_5mg	BSA _Flamma® TAMRA	5mg	554	584	vascular
RCS0108_5mg	BSA _Flamma® 560	5mg	560	589	vascular
RCS0109_5mg	BSA _Flamma® 575	5mg	578	606	vascular
RCS0110_5mg	BSA _Flamma® 581	5mg	578	595	vascular
RCS0111_5mg	BSA _Flamma® 648	5mg	648	672	vascular
RCS0112_5mg	BSA _Flamma® 675	5mg	675	698	vascular
RCS0113_5mg	BSA _Flamma® 749	5mg	750	782	vascular
RCS0114_5mg	BSA _Flamma® 774	5mg	777	802	vascular
RCS0115_5mg	BSA _Flamma® ICG	5mg	774	805	vascular
RSC0201_5mg	Dextran (3K) _FAM	5mg	495	522	vascular
RSC0202_5mg	Dextran (3K) _Flamma® 488	5mg	494	523	vascular
RSC0203_5mg	Dextran (3K) _Flamma® 507	5mg	507	532	vascular
RSC0204_5mg	Dextran (3K) _Flamma® 530	5mg	530	558	vascular
RSC0205_5mg	Dextran (3K) _Flamma® 552	5mg	551	570	vascular
RSC0207_5mg	Dextran (3K) _Flamma® TAMRA	5mg	554	584	vascular
RSC0208_5mg	Dextran (3K) _Flamma® 560	5mg	560	589	vascular
RSC0209_5mg	Dextran (3K) _Flamma® 575	5mg	578	606	vascular
RSC0210_5mg	Dextran (3K) _Flamma® 581	5mg	578	595	vascular
RSC0211_5mg	Dextran (3K) _Flamma® 648	5mg	648	672	vascular
RSC0212_5mg	Dextran (3K) _Flamma® 675	5mg	675	698	vascular
RSC0213_5mg	Dextran (3K) _Flamma® 749	5mg	750	782	vascular
RSC0214_5mg	Dextran (3K) _Flamma® 774	5mg	777	802	vascular
RSC0215_5mg	Dextran (3K) _Flamma® ICG	5mg	774	805	vascular
RSC0301_5mg	Dextran (10K) _FAM	5mg	495	522	vascular
RSC0302_5mg	Dextran (10K) _Flamma® 488	5mg	494	523	vascular
RSC0303_5mg	Dextran (10K) _Flamma® 507	5mg	507	532	vascular
RSC0304_5mg	Dextran (10K) _Flamma® 530	5mg	530	558	vascular
RSC0305_5mg	Dextran (10K) _Flamma® 552	5mg	551	570	vascular
RSC0307_5mg	Dextran (10K) _Flamma® TAMRA	5mg	554	584	vascular
RSC0308_5mg	Dextran (10K) _Flamma® 560	5mg	560	589	vascular
RSC0309_5mg	Dextran (10K) _Flamma® 575	5mg	578	606	vascular
RSC0310_5mg	Dextran (10K)_Flamma® 581	5mg	578	595	vascular
RSC0311_5mg	Dextran (10K)_Flamma® 648	5mg	648	672	vascular
RSC0312_5mg	Dextran (10K) _Flamma® 675	5mg	675	698	vascular
RSC0313_5mg	Dextran (10K) _Flamma® 749	5mg	750	782	vascular
RSC0314_5mg	Dextran (10K) _Flamma® 774	5mg	777	802	vascular
RSC0315_5mg	Dextran (10K) _Flamma® ICG	5mg	774	805	vascular

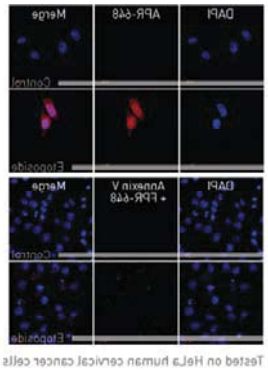
ApoFlamma® H & PS Sereis

A great alternative to Annexin V apoptosis detection products!

The ApoFlamma® Probes are composed of low molecular weight peptides and fluorescent dyes of various wavelengths. Intended for apoptosis detection, the ApoFlamma® Probes effectively bind to apoptotic cells in vivo and in vitro.

ApoFlamma® PS Series

Phosphatidylserine recognizing apoptosis detection probe



ApoFlamma® PS series is for researchers and scientists who wish to decrease cost and increase efficiency in apoptosis detection. ApoFlamma® PS series is an apoptosis detection probe that binds to phosphatidylserine. Phosphatidylserine (PS) is a phospholipid component, which usually resides in the inner leaflet of the cellular membrane. When a cell is undergoing apoptosis, PS becomes exposed to the surface of the cell. We have found a unique peptide sequence that specifically recognizes PS on the cell surface. Coupled with BioActs' superior Flamma® Fluor Fluorescent dyes, this peptide-dye complex effectively recognizes and binds to PS on cellular surfaces to accurately indicate apoptotic cells.

Key Features

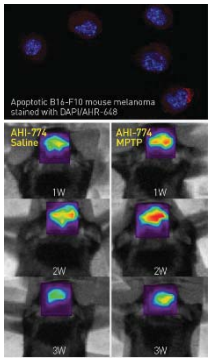
- Use on various platforms: histology, cell culture, FACS, etc.
- Non-competitive binding with Annexin V

Reference

J. Cell. Mol. Med. Vol 12, No 5A, 2008 pp. 1649-1660

ApoFlamma® H Series

Histone H1 recognizing apoptosis detection probe



The conventional way of apoptosis detection is by using Annexin V probes. However, it has been noted the *in vivo* performance of annexin V still needs improvements in the areas of background noise and specificity to apoptotic cells. Through phage-display method, an unique peptide sequence was recently found to have specific affinity to histone H1 on the surface of apoptotic cells and the nucleus of necrotic cells. Compared to annexin V. ApoPep-1 is much less bulky which helps rapid clearance from blood circulation and efficient tissue penetration, which makes it more ideal for *in vivo* experiments. BioActs is proud to introduce ApoFlamma® H series, which is a novel probe composed of Apopep-1 peptide and BioActs' superior Flamma® Fluor fluorescent dyes.

Key Features

- Use on various platforms: histology, cell culture, FACS, etc.
- Non-competitive binding with Annex
- in V
- Not dependent on calcium

Reference

Journal of Controlled Release 148 (2010) 283-291

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Apoptosis Detection Probes

Cat. no.	Product name	size	Ex(nm)	Em(nm)	Reactive target
APW1025_50 assay	ApoFlamma® PS _FAM	50 assay	495	522	Phosphatidylserine
APW1025_250 assay	ApoFlamma® PS _FAM	250 assay	495	522	Phosphatidylserine
APW1025_1000 assay	ApoFlamma® PS _FAM	1000 assay	495	522	Phosphatidylserine
APW1001_50 assay	ApoFlamma® PS _507	50 assay	507	532	Phosphatidylserine
APW1001_250 assay	ApoFlamma® PS _507	250 assay	507	532	Phosphatidylserine
APW1001_1000 assay	ApoFlamma® PS _507	1000 assay	507	532	Phosphatidylserine
APO1001_50 assay	ApoFlamma® PS _530	50 assay	530	558	Phosphatidylserine
APO1001_250 assay	ApoFlamma® PS _530	250 assay	530	558	Phosphatidylserine
APO1001_1000 assay	ApoFlamma® PS _530	1000 assay	530	558	Phosphatidylserine
APW1011_50 assay	ApoFlamma® PS _552	50 assay	551	570	Phosphatidylserine
APW1011_250 assay	ApoFlamma® PS _552	250 assay	551	570	Phosphatidylserine
APW1011_1000 assay	ApoFlamma® PS _552	1000 assay	551	570	Phosphatidylserine
APP1001_50 assay	ApoFlamma® PS _TAMRA	50 assay	554	584	Phosphatidylserine
APP1001_250 assay	ApoFlamma® PS _TAMRA	250 assay	554	584	Phosphatidylserine
APP1001_1000 assay	ApoFlamma® PS _TAMRA	1000 assay	554	584	Phosphatidylserine
APW1028_50 assay	ApoFlamma® PS _560	50 assay	560	589	Phosphatidylserine
APW1028_250 assay	ApoFlamma® PS _560	250 assay	560	589	Phosphatidylserine
APW1028_1000 assay	ApoFlamma® PS _560	1000 assay	560	589	Phosphatidylserine
APO1002_50 assay	ApoFlamma® PS _575	50 assay	578	606	Phosphatidylserine
APO1002_250 assay	ApoFlamma® PS _575	250 assay	578	606	Phosphatidylserine
APO1002_1000 assay	ApoFlamma® PS _575	1000 assay	578	606	Phosphatidylserine
APW1415_50 assay	ApoFlamma® PS _581	50 assay	578	595	Phosphatidylserine
APW1415_250 assay	ApoFlamma® PS _581	250 assay	578	595	Phosphatidylserine
APW1415_1000 assay	ApoFlamma® PS _581	1000 assay	578	595	Phosphatidylserine
APW1215_50 assay	ApoFlamma® PS _648	50 assay	648	672	Phosphatidylserine
APW1215_250 assay	ApoFlamma® PS _648	250 assay	648	672	Phosphatidylserine
APW1215_1000 assay	ApoFlamma® PS _648	1000 assay	648	672	Phosphatidylserine
APW1501_10 doses	ApoFlamma® PS _675	10 doses	675	698	Phosphatidylserine
APW1501_50 doses	ApoFlamma® PS _675	50 doses	675	698	Phosphatidylserine
APW1501_200 doses	ApoFlamma® PS _675	200 doses	675	698	Phosphatidylserine
APW1301_10 doses	ApoFlamma® PS _749	10 doses	750	782	Phosphatidylserine
APW1301_50 doses	ApoFlamma® PS _749	50 doses	750	782	Phosphatidylserine
APW1301_200 doses	ApoFlamma® PS _749	200 doses	750	782	Phosphatidylserine
APW1601_10 doses	ApoFlamma® PS _774	10 doses	777	802	Phosphatidylserine
APW1601_50 doses	ApoFlamma® PS _774	50 doses	777	802	Phosphatidylserine
APW1601_200 doses	ApoFlamma® PS _774	200 doses	777	802	Phosphatidylserine
APO1601_10 doses	ApoFlamma® PS _ICG	10 doses	774	805	Phosphatidylserine
APO1601_50 doses	ApoFlamma® PS _ICG	50 doses	774	805	Phosphatidylserine
APO1601_200 doses	ApoFlamma® PS _ICG	200 doses	774	805	Phosphatidylserine
AHW1025_50 assay	ApoFlamma® H _FAM	50 assay	495	522	Histone -1
AHW1025_250 assay	ApoFlamma® H _FAM	250 assay	495	522	Histone -1
AHW1025_1000 assay	ApoFlamma® H _FAM	1000 assay	495	522	Histone -1
AHW1001_50 assay	ApoFlamma® H _507	50 assay	507	532	Histone -1
AHW1001_250 assay	ApoFlamma® H _507	250 assay	507	532	Histone -1
AHW1001_1000 assay	ApoFlamma® H _507	1000 assay	507	532	Histone -1
AHO1001_50 assay	ApoFlamma® H _530	50 assay	530	558	Histone -1
AHO1001_250 assay	ApoFlamma® H _530	250 assay	530	558	Histone -1
AHO1001_1000 assay	ApoFlamma® H _530	1000 assay	530	558	Histone -1
AHW1011_50 assay	ApoFlamma® H _552	50 assay	551	570	Histone -1
AHW1011_250 assay	ApoFlamma® H _552	250 assay	551	570	Histone -1
AHW1011_1000 assay	ApoFlamma® H _552	1000 assay	551	570	Histone -1
AHH1001_50 assay	ApoFlamma® H _TAMRA	50 assay	554	584	Histone -1
AHH1001_250 assay	ApoFlamma® H _TAMRA	250 assay	554	584	Histone -1

Cat. no.	Product name	size	Ex(nm)	Em(nm)	Reactive target
AHH1001_1000 assay	ApoFlamma® H _TAMRA	1000 assay	554	584	Histone -1
AHW1028_50 assay	ApoFlamma® H _560	50 assay	560	589	Histone -1
AHW1028_250 assay	ApoFlamma® H _560	250 assay	560	589	Histone -1
AHW1028_1000 assay	ApoFlamma® H _560	1000 assay	560	589	Histone -1
AHO1002_50 assay	ApoFlamma® H _575	50 assay	578	606	Histone -1
AHO1002_250 assay	ApoFlamma® H _575	250 assay	578	606	Histone -1
AHO1002_1000 assay	ApoFlamma® H _575	1000 assay	578	606	Histone -1
AHW1415_50 assay	ApoFlamma® H _581	50 assay	578	595	Histone -1
AHW1415_250 assay	ApoFlamma® H _581	250 assay	578	595	Histone -1
AHW1415_1000 assay	ApoFlamma® H _581	1000 assay	578	595	Histone -1
AHW1215_50 assay	ApoFlamma® H _648	50 assay	648	672	Histone -1
AHW1215_250 assay	ApoFlamma® H _648	250 assay	648	672	Histone -1
AHW1215_1000 assay	ApoFlamma® H _648	1000 assay	648	672	Histone -1
AHW1501_10 doses	ApoFlamma® H _675	10 doses	675	698	Histone -1
AHW1501_50 doses	ApoFlamma® H _675	50 doses	675	698	Histone -1
AHW1501_200 doses	ApoFlamma® H _675	200 doses	675	698	Histone -1
AHW1301_10 doses	ApoFlamma® H _749	10 doses	750	782	Histone -1
AHW1301_50 doses	ApoFlamma® H _749	50 doses	750	782	Histone -1
AHW1301_200 doses	ApoFlamma® H _749	200 doses	750	782	Histone -1
AHW1601_10 doses	ApoFlamma® H _774	10 doses	777	802	Histone -1
AHW1601_50 doses	ApoFlamma® H _774	50 doses	777	802	Histone -1
AHW1601_200 doses	ApoFlamma® H _774	200 doses	777	802	Histone -1
AHO1601_10 doses	ApoFlamma® H _ICG	10 doses	774	805	Histone -1
AHO1601_50 doses	ApoFlamma® H _ICG	50 doses	774	805	Histone -1
AHO1601_200 doses	ApoFlamma® H _ICG	200 doses	774	805	Histone -1
XAP2102_50 assay	Annexin V _FAM	50 assay	495	522	Phosphatidylserine
XAP2102_250 assay	Annexin V _FAM	250 assay	495	522	Phosphatidylserine
XAP2102_1000 assay	Annexin V _FAM	1000 assay	495	522	Phosphatidylserine
XAP2202_50 assay	Annexin V _Flamma® 488	50 assay	494	523	Phosphatidylserine
XAP2202_250 assay	Annexin V _Flamma® 488	250 assay	494	523	Phosphatidylserine
XAP2202_1000 assay	Annexin V _Flamma® 488	1000 assay	494	523	Phosphatidylserine
XAP2502_50 assay	Annexin V _Flamma® 507	50 assay	507	532	Phosphatidylserine
XAP2502_250 assay	Annexin V _Flamma® 507	250 assay	507	532	Phosphatidylserine
XAP2502_1000 assay	Annexin V _Flamma® 507	1000 assay	507	532	Phosphatidylserine
XAP2602_50 assay	Annexin V _Flamma® 530	50 assay	530	558	Phosphatidylserine
XAP2602_250 assay	Annexin V _Flamma® 530	250 assay	530	558	Phosphatidylserine
XAP2602_1000 assay	Annexin V _Flamma® 530	1000 assay	530	558	Phosphatidylserine
XAP2302_50 assay	Annexin V _Flamma® 552	50 assay	551	570	Phosphatidylserine
XAP2302_250 assay	Annexin V _Flamma® 552	250 assay	551	570	Phosphatidylserine
XAP2302_1000 assay	Annexin V _Flamma® 552	1000 assay	551	570	Phosphatidylserine
XAP2802_50 assay	Annexin V _TAMRA	50 assay	554	584	Phosphatidylserine
XAP2802_250 assay	Annexin V _TAMRA	250 assay	554	584	Phosphatidylserine
XAP2802_1000 assay	Annexin V _TAMRA	1000 assay	554	584	Phosphatidylserine
XAP2902_50 assay	Annexin V _Flamma® 560	50 assay	560	589	Phosphatidylserine
XAP2902_250 assay	Annexin V _Flamma® 560	250 assay	560	589	Phosphatidylserine
XAP2902_1000 assay	Annexin V _Flamma® 560	1000 assay	560	589	Phosphatidylserine
XAP2002_50 assay	Annexin V _Flamma® 575	50 assay	578	606	Phosphatidylserine
XAP2002_250 assay	Annexin V _Flamma® 575	250 assay	578	606	Phosphatidylserine
XAP2002_1000 assay	Annexin V _Flamma® 575	1000 assay	578	606	Phosphatidylserine
XAP2012_50 assay	Annexin V _Flamma® 581	50 assay	578	595	Phosphatidylserine
XAP2012_250 assay	Annexin V _Flamma® 581	250 assay	578	595	Phosphatidylserine
XAP2012_1000 assay	Annexin V _Flamma® 581	1000 assay	578	595	Phosphatidylserine
XAP2402_50 assay	Annexin V _Flamma® 648	50 assay	648	672	Phosphatidylserine
XAP2402_250 assay	Annexin V _Flamma® 648	250 assay	648	672	Phosphatidylserine
XAP2402_1000 assay	Annexin V _Flamma® 648	1000 assay	648	672	Phosphatidylserine

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Cat. no.	Product name	size	Ex(nm)	Em(nm)	Reactive target
XAP2022_50 assay	Annexin V _Flamma® 675	50 assay	675	698	Phosphatidylserine
XAP2022_250 assay	Annexin V _Flamma® 675	250 assay	675	698	Phosphatidylserine
XAP2022_1000 assay	Annexin V _Flamma® 675	1000 assay	675	698	Phosphatidylserine
XAP2032_50 assay	Annexin V _Flamma® 749	50 assay	750	782	Phosphatidylserine
XAP2032_250 assay	Annexin V _Flamma® 749	250 assay	750	782	Phosphatidylserine
XAP2032_1000 assay	Annexin V _Flamma® 749	1000 assay	750	782	Phosphatidylserine
XAP2042_50 assay	Annexin V _Flamma® 774	50 assay	777	802	Phosphatidylserine
XAP2042_250 assay	Annexin V _Flamma® 774	250 assay	777	802	Phosphatidylserine
XAP2042_1000 assay	Annexin V _Flamma® 774	1000 assay	777	802	Phosphatidylserine
XAP2052_50 assay	Annexin V _Flamma® ICG	50 assay	774	805	Phosphatidylserine
XAP2052_250 assay	Annexin V _Flamma® ICG	250 assay	774	805	Phosphatidylserine
XAP2052_1000 assay	Annexin V _Flamma® ICG	1000 assay	774	805	Phosphatidylserine

MORE INFORMATION

BioActs web site : www.BioActs.com

6 BIO ASSAY KITS

BioActs provides the customers and researchers with the assay products in order to analyze a wide variety of the life instincts such as apoptosis, cell cycle, DNA repair, cell viability and vitality, proliferation, migration, adhesion, chemotaxis, endo- and exocytosis, angiogenesis & etc

A. Apoptosis / Cell Death Assay Kits

Assays and antibodies for characterizing programmed cell death including determining which cells are apoptotic, live, and necrotic.

Apoptosis / Cell Death detection

Cat. no.	Product name	size	Ex(nm)	Em(nm)	Reactive target
XAP1101_50 assay	Annexin V FITC _apoptotic detection kit	50 assay	495	522	Apoptosis
XAP1101_250 assay	Annexin V FITC _apoptotic detection kit	250 assay	495	522	Apoptosis
XAP1101_1000 assay	Annexin V FITC _apoptotic detection kit	1000 assay	495	522	Apoptosis
XAP1201_50 assay	Annexin V Flamma® 488 _apoptotic detection kit	50 assay	494	523	Apoptosis
XAP1201_250 assay	Annexin V Flamma® 488 _apoptotic detection kit	250 assay	494	523	Apoptosis
XAP1201_1000 assay	Annexin V Flamma® 488 _apoptotic detection kit	1000 assay	494	523	Apoptosis
XAP1301_50 assay	Annexin V Flamma® 552 _apoptotic detection kit	50 assay	551	570	Apoptosis
XAP1301_250 assay	Annexin V Flamma® 552 _apoptotic detection kit	250 assay	551	570	Apoptosis
XAP1301_1000 assay	Annexin V Flamma® 552 _apoptotic detection kit	1000 assay	551	570	Apoptosis
XAP1401_50 assay	Annexin V Flamma® 648 _apoptotic detection kit	50 assay	648	672	Apoptosis
XAP1401_250 assay	Annexin V Flamma® 648 _apoptotic detection kit	250 assay	648	672	Apoptosis
XAP1401_1000 assay	Annexin V Flamma® 648 _apoptotic detection kit	1000 assay	648	672	Apoptosis
XTN1101_50 assay	FITC _TUNEL assay kit	50 assay	495	522	Apoptosis
XTN1101_100 assay	FITC _TUNEL assay kit	100 assay	495	522	Apoptosis
XAP1101_200 assay	FITC _TUNEL assay kit	200 assay	495	522	Apoptosis
XTN1401_50 assay	Flamma® 488 _TUNEL assay kit	50 assay	494	523	Apoptosis
XTN1401_100 assay	Flamma® 488 _TUNEL assay kit	100 assay	494	523	Apoptosis
XTN1401_200 assay	Flamma® 488 _TUNEL assay kit	200 assay	494	523	Apoptosis
XTN1201_50 assay	Flamma® 552 _TUNEL assay kit	50 assay	551	570	Apoptosis
XTN1201_100 assay	Flamma® 552 _TUNEL assay kit	100 assay	551	570	Apoptosis
XTN1201_200 assay	Flamma® 552 _TUNEL assay kit	200 assay	551	570	Apoptosis
XTN1301_50 assay	Flamma® 648 _TUNEL assay kit	50 assay	648	672	Apoptosis
XTN1301_100 assay	Flamma® 648 _TUNEL assay kit	100 assay	648	672	Apoptosis
XTN1301_200 assay	Flamma® 648 _TUNEL assay kit	200 assay	648	672	Apoptosis

MORE INFORMATION

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SECTION III SERVICE

CUSTOM SERVICE LABELING SERVICE
INHOUSE SERVICE
CUSTOM DYE SYNTHESIS
MASS PRODUCTION

1 Custom services

A. Labeling Service

BioActs, with its expertise labeling technology and know-how, is providing Labeling Services which can be satisfactorily applied to antibodies, proteins, peptides, ligands, synthetic oligonucleotides and other biomolecules. Services are also available through other popular dyes as well as Flamma® series.

B. In-House Service

BioActs has a history of strong collaborative alliances and strategic partnership with many diagnostics and life sciences companies. Our goal is to provide our customer the highest level of product performance, customer service and pricing.

C. Custom Dye Synthesis

BioActs has extensive experience and our own in-house skills in the synthesis of highly valuable products for biotech. BioActs offers a custom synthesis service of compound that are not list on our catalogue.

D. Mass Production

We pride ourselves in our production capacity : several hundreads gram compound. We also take pride in providing bulk quantity with the best quality, a good reproducibility and at very competitive prices

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