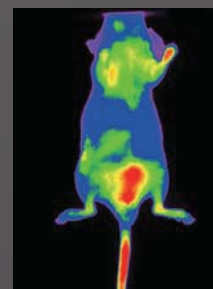


Flamma[®] NIR Fluors Dyes

Flamma[®] NIR Fluors series of BioActs are near-infrared fluorescence dyes for animal imaging and these are brighter and have high water solubility and low toxicity. Flamma[®] NIR Fluors series, which consist of various fluorescent substances that have fluorescence wavelength of 700 nm ~ 800 nm, provide many options of reactive group and functional group besides NHS ester and maleimide.



BioActs' Near InfraRed Fluorescence Products

Flamma [®] Fluor	λ_{Ex} (nm)	λ_{Em} (nm)	Excitation Laser Line	Replacement for
Flamma [®] 648	648	672	663, 635, or 640 nm Laser	Alexa Fluor [®] 647, Cy [®] 5, DyLight [®] 649, CF [™] 647, ATTO 647N
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, CFTM 770
Flamma [®] 800	795	817	785 nm Laser	Alexa Fluor [®] 790, DyLight [®] 800, CF [™] 790, IRDye [®] 800CW

Flamma[®] NIR Fluors Application

Reactive Flamma [®] NIR Fluors	Reactive target group	Functionalized Flamma [®] NIR Fluors
Flamma [®] NIR Fluors NHS ester	Amine (-NH ₂)	Flamma [®] NIR Fluors Carboxylic acid
Flamma [®] NIR Fluors Sulfo-NHS ester		Flamma [®] NIR Fluors Amine
Flamma [®] NIR Fluors Vinylsulfone		Flamma [®] NIR Fluors Thiol
Flamma [®] NIR Fluors Isothiocyanate	Thiol (-SH)	Click-chemistry Flamma [®] NIR Fluors
Flamma [®] NIR Fluors Maleimide		Flamma [®] NIR Fluors Alkyne
Flamma [®] NIR Fluors Hydrazide		Flamma [®] NIR Fluors PEG4-Alkyne
Flamma [®] NIR Fluors Dichlorotriazine	& hydroxyl group	Flamma [®] NIR Fluors ADIBO



BioActs
Fluorescence Probes & Dyes

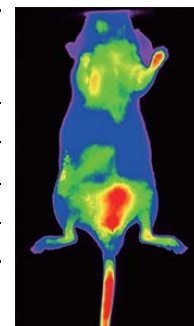
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NIR Fluorescence Dyes

Flamma® NIR Flours series of BioActs are near-infrared fluorescence dyes for animal imaging and these are brighter and have high water solubility and low toxicity. Flamma® NIR Flours series, which consist of various fluorescent substances that have fluorescence wavelength of 700 nm ~ 800 nm, provide many options of reactive group and functional group besides NHS ester and maleimide.

Flamma® Fluor	λ_{Ex} (nm)	λ_{Em} (nm)	Excitation Laser Line	Replacement for
Flamma® 648	648	672	663, 635, or 640 nm Laser	Alexa Fluor® 647, Cy® 5, DyLight® 649, CF™ 647, ATTO 647N
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

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BioActs' NIR Fluorescence Dyes

Cat. No.	Product name	Common filter set	Excitation laser line
PWS1515	Flamma® 675 NHS ester	Cy®5.5	633, 680 nm
PWSN1515	Flamma® 675 Sulfo-NHS ester	Cy®5.5	633, 680 nm
PWA1515	Flamma® 675 Vinylsulfone	Cy®5.5	633, 680 nm
KWI1515	Flamma® 675 Isothiocyanate	Cy®5.5	633, 680 nm
PWM1415	Flamma® 675 maleimide	Cy®5.5	633, 680 nm
PWH1515	Flamma® 675 hydrazide	Cy®5.5	633, 680 nm
PWR2515	Flamma® 675 dichlorotriazine	Cy®5.5	633, 680 nm
PWK1515	Flamma® 675 alkyne	Cy®5.5	633, 680 nm
PWG1515	Flamma® 675 PEG4-alkyne	Cy®5.5	633, 680 nm
DWC1051	Flamma® 675 ADIBO	Cy®5.5	633, 680 nm
PWS1301	Flamma® 749 NHS ester	Cy®7	680 nm
PWSN1301	Flamma® 749 Sulfo-NHS ester	Cy®7	680 nm
PWA1301	Flamma® 749 Vinylsulfone	Cy®7	680 nm
PWI1301	Flamma® 749 Isothiocyanate	Cy®7	680 nm
PWM1215	Flamma® 749 maleimide	Cy®7	680 nm
PWH1301	Flamma® 749 hydrazide	Cy®7	680 nm
PWR2301	Flamma® 749 dichlorotriazine	Cy®7	680 nm
PWK1301	Flamma® 749 alkyne	Cy®7	680 nm
PWG1301	Flamma® 749 PEG4-alkyne	Cy®7	680 nm
DWC1031	Flamma® 749 ADIBO	Cy®7	680 nm

Cat. No.	Product name	Common filter set	Excitation laser line
PWS1603	Flamma® 774 NHS ester	Cy®7.5	785 nm
PWSN1603	Flamma® 774 Sulfo-NHS ester	Cy®7.5	785 nm
PWA1603	Flamma® 774 Vinylsulfone	Cy®7.5	785 nm
PWI1603	Flamma® 774 Isothiocyanate	Cy®7.5	785 nm
PWM1515	Flamma® 774 maleimide	Cy®7.5	785 nm
PWH1603	Flamma® 774 hydrazide	Cy®7.5	785 nm
PWR2603	Flamma® 774 dichlorotriazine	Cy®7.5	785 nm
PWK1603	Flamma® 774 alkyne	Cy®7.5	785 nm
PWG1603	Flamma® 774 PEG4-alkyne	Cy®7.5	785 nm
DWC1061	Flamma® 774 ADIBO	Cy®7.5	785 nm
POS1604	ICG NHS ester	Cy®7.5	785 nm
POSN1604	ICG Sulfo-NHS ester	Cy®7.5	785 nm
POA1616	ICG Vinylsulfone	Cy®7.5	785 nm
POI1616	ICG Isothiocyanate	Cy®7.5	785 nm
PWM1301	ICG maleimide	Cy®7.5	785 nm
POH1616	ICG hydrazide	Cy®7.5	785 nm
POR2616	ICG dichlorotriazine	Cy®7.5	785 nm
POK1616	ICG alkyne	Cy®7.5	785 nm
POG1616	ICG PEG4-alkyne	Cy®7.5	785 nm
DOC1061	ICG ADIBO	Cy®7.5	785 nm



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