Flamma® Fluors

- Full spectrum of fluorescent substances line-up from UV to NIR
- Selectable options for a variety reactive group and functional group
- High purity and bright fluorescent performance

Flamma® Fluors Fluorochrome

Flamma® Fluor	λ_{Ex} (nm)	λ_{Em} (nm)	Excitation Laser Line	Replacement for
Flamma® 406	401	434	UV	Alexa Fluor® 405, Cascade Blue®, DyLight® 405, CF™ 405, Pacific Blue®
Flamma® 496	496	516	488 nm Laser	FAM, FITC, Fluorescein
Flamma® 488	495	519	488 nm Laser	Alexa Fluor® 488, Cy® 2, DyLight® 488, CF™ 488, ATTO 488
Flamma® 552	550	565	532, 543, 546, 555 or 568 nm Laser	Alexa Fluor® 555, Cy® 3, DyLight® 549, CF™ 488, ATTO 488
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® 648	648	663	663, 635, or 640 nm Laser	Alexa Fluor® 647, Cy® 5, DyLight® 649, CF™ 647, ATTO 647N
Flamma® 675	675	691	680 or 685 nm Laser	Alexa Fluor® 680, Cy® 5.5, DyLight® 680, CF™ 680, IRDye® 680LT
Flamma® 749	749	774	680 or 685 nm Laser	Alexa Fluor® 750, Cy® 7, DyLight® 750, CF™ 750, IRDye® 750
Flamma® 774	774	800	785 nm Laser	Cy® 7.5, CF™ 770
Flamma® 800	775	795	785 nm Laser	Alexa Fluor® 790, DyLight® 800, CF™ 790, IRDye® 800CW

Flamma® Fluors Application

Reactive Flamma® Fluors	Reactive target group
Flamma® Fluors NHS ester	Amine ($-NH_2$)
Flamma® Fluors Sulfo-NHS ester	
Flamma® Fluors Vinylsulfone	
Flamma® Fluors Isothiocyanate	
Flamma® Fluors Maleimide	Thiol (-SH)
Flamma® Fluors Hydrazide	Aldehyde, ketone & hydroxyl group
Flamma® Fluors Dichlorotriazine	

Functionalized Flamma® Fluors
Flamma® Fluors Carboxylic acid
Flamma® Fluors Amine
Flamma® Fluors Thiol
Click-chemistry Flamma® Fluors
Flamma® Fluors Alkyne
Flamma® Fluors PEG4-Alkyne
Flamma® Fluors ADIBO

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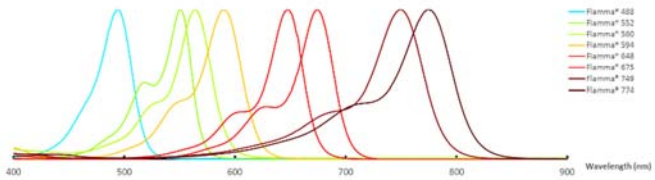
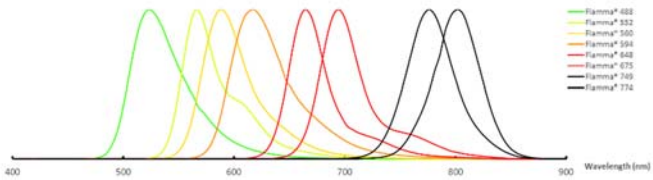
Flamma® Fluors

As Flamma® Fluors, which is a Fluorescent dye products group developed by a leading fluorescence technology of BioActs, is equipped with fluorescent substance line-up which can cover full spectral range from UV to NIR with its brighter fluorescence performance, it is compatible with optical conditions of most of fluorescent equipment. Along with this, it also provides a wide range of research applications with a variety of selectable options for reactive group and functional group.

Flamma® Fluors Absorbance Spectra

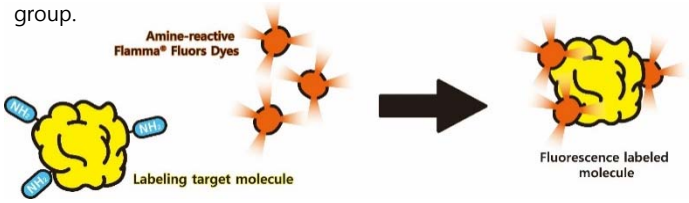


Flamma® Fluors Emission Spectra



Labeling Amine

Amine-reactive labeling method is the most commonly used method for labeling a variety of biomolecules besides proteins and peptides, and it is utilized in various imaging and production of probes for analysis purpose. Flamma® Fluors is for labeling amine and offers reactive functional options of NHS ester, Vinylsulfone, and Isothiocyanate, or unreactive functional group option of carboxyl group.

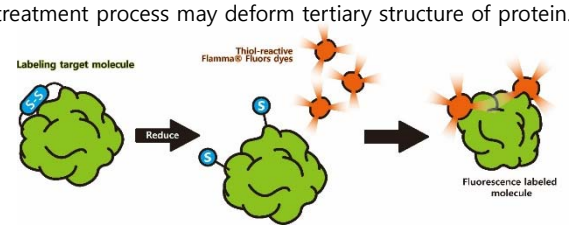


Labeling Aldehyde, Ketone & Hydroxyl group

Flamma® Fluors Hydrazide, which is for labeling Aldehyde and Ketone, and Flamma® Fluors Dichlorotriazine, which is for labeling Hydroxyl group, are utilized in fluorescent labeling of small compounds such as hormone and saccharide. To label Flamma® Fluors Hydrazide on polysaccharide and glycoprotein, oxidation process that oxidizes saccharide to Aldehyde is required prior to reaction. In general, method of using Sodium periodate-mediate oxidation of vicinal diol is utilized.

Labeling Thiol

Thiol-reactive labeling is a widely used method for labeling biomolecules besides Amine-reactive labeling, and it is extensively utilized in labeling proteomics, peptide, and ligand with amine labeling. Flamma® Fluors Maleimide high specifically binds to thiol group, and corresponded labeling to Thiol group of proteome or peptide uses Thiol group of cysteine. By using a reducing agent such as DTT, TCEP or 2-mercaptoethanol, pretreatment process should be undergone to reduce disulfide bond in protein. Reducing pretreatment process may deform tertiary structure of protein.



Click-Chemistry

Click chemistry is the most accurate and the fastest method of binding organic molecules, and it can be utilized in a variety of labeling method or cell analysis connected with bio orthogonal reaction of Click chemistry. To utilize Flamma® Fluors for click chemical bonding in various directions, BioActs has introduced Flamma® Fluors ADIBO products group that doesn't require copper catalyst, besides Flamma® Fluors Azide and Flamma® Fluors Alkyne products group.

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Product Catalog

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