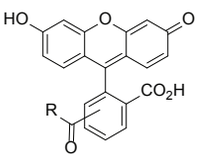
FAM & TAMRA Dyes

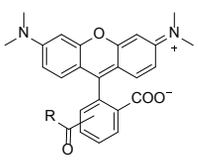
High Absorptivity & Purity, Competitive Prices

- Equipped with a variety of reactive groups: NHS and Sulfo-NHS ester, Vinylsulfone, Maleimide, Click chemistry, Isothiocyanate and Hydrazide
- High absorptivity, quantum yield and aqueous solubility
- High purity and compatible with wide range of biomolecules



FAM Dye

5(6)-Carboxyfluorescein (FAM) dyes are traditionally used for labeling of biomolecules. FAM is a green fluorescent dye used to label peptides, proteins and nucleotides. The maximum excitation peak of FAM is closely matched to 488 nm spectral line of the argon-ion laser.



TAMRA Dye

5(6)-Carboxytetramethylrhodamine (TAMRA) dyes are important fluorophore for preparing protein conjugates. TAMRA fluorophore has been incorporated into bioconjugates such as fluorescent antibody and avidin derivatives. TAMRA dye is also extensively utilized for oligonucleotide labeling and automated DNA sequencing applications.

FAM & TAMRA Dye Applications

Reactive FAM & TAMRA	
Reactive Form	**Reacting with**
NHS ester Sulfo-NHS ester Vinylsulfone Isothiocyanate	Primary amine
Maleimide	Thiol
Dichlorotriazine	Hydroxyl
Hydrazine	Aldehyde, Ketone

FAM & TAMRA for Click Chemistry	
Reactive Form	**Application**
Alkyne	CuAAC*
PEG-4 alkyne	CuAAC*
Azide	CuAAC*
ADIBO	SPAAC**
Non-Reactive FAM & TAMRA	
Amine	-
Thiol	-

*CuAAC: Copper-catalysed azide–alkyne cycloadditions
**SPAAC: Strain-promoted alkyne-azide cycloadditions

List of FAM & TAMRA Dyes

FAM Dyes

Cat. No.	Product Name	Ex_{Max} (nm)	Em_{Max} (nm)	Packing Unit
CWS1025	FAM NHS ester	494	518	25 mg
CWSN1025	FAM Sulfo-NHS ester	494	518	1, 5, 25 mg
CWA1020	FAM Vinylsulfone	494	518	1, 5, 25 mg
CWM1003	FAM Maleimide	494	522	1, 5, 25 mg
CWZ1003	FAM Azide	494	522	1, 5, 25 mg
CWH1003	FAM Hydrazide	492	519	1, 5, 25 mg
CWR2003	FAM Dichlorotriazine	492	519	1, 5, 25 mg
CWK1003	FAM Alkyne	494	522	1, 5, 25 mg
PWK1701	FAM PEG4-Alkyne	494	522	1, 5, 25 mg
DWF1001	FAM ADIBO	494	522	1, 5, 25 mg
CWE1003	FAM Amine	494	522	1, 5, 25 mg
CWT1003	FAM Thiol	494	522	1, 5, 25 mg
CWI1003	FAM Isothiocyanate	492	519	25 mg

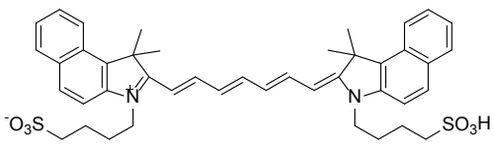
TAMRA Dyes

Cat. No.	Product Name	Ex_{Max} (nm)	Em_{Max} (nm)	Packing Unit
KWS1025	TAMRA NHS ester	554	583	25 mg
KWSN1025	TAMRA Sulfo-NHS ester	554	583	1, 5, 25 mg
KWA1020	TAMRA Vinylsulfone	553	575	1, 5, 25 mg
KWM1057	TAMRA Maleimide	553	575	1, 5, 25 mg
KWZ1025	TAMRA Azide	543	575	1, 5, 25 mg
KWH1025	TAMRA Hydrazide	544	576	1, 5, 25 mg
KWR2025	TAMRA Dichlorotriazine	544	576	1, 5, 25 mg
KWK1025	TAMRA Alkyne	543	575	1, 5, 25 mg
KWG1025	TAMRA PEG4-Alkyne	543	575	1, 5, 25 mg
DWR1001	TAMRA ADIBO	543	575	1, 5, 25 mg
KWE1025	TAMRA Amine	553	575	1, 5, 25 mg
KWT1057	TAMRA Thiol	553	575	1, 5, 25 mg
KWI1020	TAMRA Isothiocyanate	553	575	25 mg

Indocyanine Green (ICG) Dyes

High Purity, Competitive Prices, Excellent Aqueous Solubility

ICG is clinically approved NIR dye and used in medical diagnostics, in vitro, in vivo and animal model study. BioActs developed **water-soluble ICG dye** for biological research/medical diagnostics. BioActs offers various reactive and functionalized ICG dyes for labeling of antibodies, peptides, proteins and ligands.



Indocyanine Green (ICG) Dye

List of ICG Dyes

CatNo	Product Name	^{Ex}Max (nm)	^{Em}Max (nm)	Packing Unit
RFP0815	ICG	785	812	25, 100 mg
RFP0915	ICG (Water-Soluble)	785	812	25, 100 mg
POS1604	ICG NHS ester	785	812	1, 5, 25 mg
POA1616	ICG Vinylsulfone	785	814	1, 5, 25 mg
POSN1604	ICG Sulfo-NHS ester	785	812	1, 5, 25 mg
POI1616	ICG Isothiocyanate	785	812	1, 5, 25 mg
POC1616	ICG Carboxylic acid	785	812	1, 5, 25 mg
PWM1301	ICG Maleimide	785	812	1, 5, 25 mg
POE1616	ICG Amine	785	812	1, 5, 25 mg
PWT1301	ICG Thiol	785	812	1, 5, 25 mg
POR2616	ICG Dichlorotriazine	785	812	1, 5, 25 mg
POH1616	ICG Hydrazide	785	821	1, 5, 25 mg
POK1616	ICG Alkyne	785	812	1, 5, 25 mg
POG1616	ICG PEG4-Alkyne	785	812	1, 5, 25 mg
DOC1061	ICG ADIBO	785	812	1, 5, 25 mg
POZ1616	ICG Azide	785	821	1, 5, 25 mg

ICG Dye Applications

Reactive ICG	
Reactive Form	**Reacting with**
ICG NHS ester ICG Sulfo-NHS ester ICG Vinylsulfone ICG Isothiocyanate	Primary amine
ICG Maleimide	Thiol
ICG Hydrazine	Aldehyde, Ketone
ICG Dichlorotriazine	Hydroxyl

ICG for Click Chemistry	
Reactive Form	**Application**
ICG Alkyne	CuAAC*
ICG PEG-4 alkyne	CuAAC*
ICG Azide	CuAAC*
ICG ADIBO	SPAAC**
Non-Reactive ICG	
ICG	
ICG (water-soluble)	
ICG Amine	
ICG Thiol	
ICG Carboxylic acid	

*CuAAC: Copper-catalysed azide–alkyne cycloadditions
**SPAAC: Strain-promoted alkyne-azide cycloadditions

Custom Service: BioActs provides custom antibody/protein fluorescence labeling services with a wide selection of reactive dyes and proper labeling technology.

For ordering custom service, complete custom labeling service request form and submit via email order@bioacts.com or by fax to +82-32-818-8206

For questions, please contact us at support@bioacts.com

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