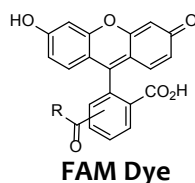


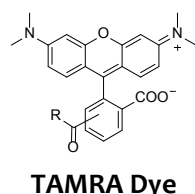
FAM & TAMRA Dyes

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



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.



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		FAM & TAMRA for Click Chemistry	
Reactive Form	Reacting with	Reactive Form	Application
NHS ester	Primary amine	Alkyne	CuAAC*
Sulfo-NHS ester		PEG-4 alkyne	CuAAC*
Vinylsulfone		Azide	CuAAC*
Isothiocyanate		ADIBO	SPAAC**
Maleimide	Thiol	Non-Reactive FAM & TAMRA	
Dichlorotriazine	Hydroxyl	Amine	-
Hydrazine	Aldehyde, Ketone	Thiol	-

*CuAAC: Copper-catalysed azide-alkyne cycloadditions

**SPAAC: Strain-promoted alkyne-azide cycloadditions

List of FAM & TAMRA Dyes

FAM Dyes					TAMRA Dyes				
Cat. No.	Product Name	Ex _{Max} (nm)	Em _{Max} (nm)	Packing Unit	Cat. No.	Product Name	Ex _{Max} (nm)	Em _{Max} (nm)	Packing Unit
CWS1025	FAM NHS ester	494	518	25 mg	KWS1025	TAMRA NHS ester	554	583	25 mg
CWSN1025	FAM Sulfo-NHS ester	494	518	1, 5, 25 mg	KWSN1025	TAMRA Sulfo-NHS ester	554	583	1, 5, 25 mg
CWA1020	FAM Vinylsulfone	494	518	1, 5, 25 mg	KWA1020	TAMRA Vinylsulfone	553	575	1, 5, 25 mg
CWM1003	FAM Maleimide	494	522	1, 5, 25 mg	KWM1057	TAMRA Maleimide	553	575	1, 5, 25 mg
CWZ1003	FAM Azide	494	522	1, 5, 25 mg	KWZ1025	TAMRA Azide	543	575	1, 5, 25 mg
CWH1003	FAM Hydrazide	492	519	1, 5, 25 mg	KWH1025	TAMRA Hydrazide	544	576	1, 5, 25 mg
CWR2003	FAM Dichlorotriazine	492	519	1, 5, 25 mg	KWR2025	TAMRA Dichlorotriazine	544	576	1, 5, 25 mg
CWK1003	FAM Alkyne	494	522	1, 5, 25 mg	KWK1025	TAMRA Alkyne	543	575	1, 5, 25 mg
PWK1701	FAM PEG4-Alkyne	494	522	1, 5, 25 mg	KWG1025	TAMRA PEG4-Alkyne	543	575	1, 5, 25 mg
DWF1001	FAM ADIBO	494	522	1, 5, 25 mg	DWR1001	TAMRA ADIBO	543	575	1, 5, 25 mg
CWE1003	FAM Amine	494	522	1, 5, 25 mg	KWE1025	TAMRA Amine	553	575	1, 5, 25 mg
CWT1003	FAM Thiol	494	522	1, 5, 25 mg	KWT1057	TAMRA Thiol	553	575	1, 5, 25 mg
CWI1003	FAM Isothiocyanate	492	519	25 mg	KWI1020	TAMRA Isothiocyanate	553	575	25 mg