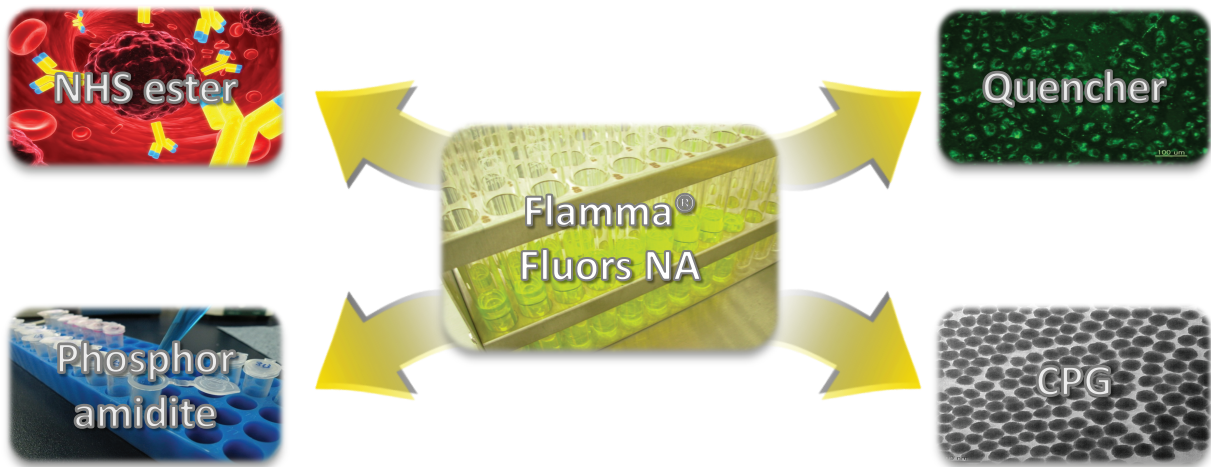
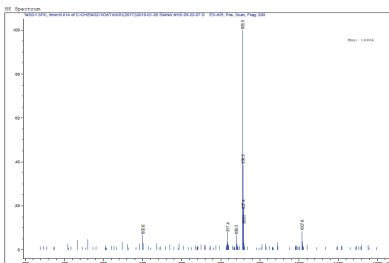


- Effective fluorescence labeling of target DNA or RNA sequence
- Wide range of applications including, FISH, in situ hybridization, sequencing and genotyping
- Equipped with a variety of functional and reactive groups
- High sensitivity and specificity, yet low toxicity
- High purity, compatible with most of biomolecules

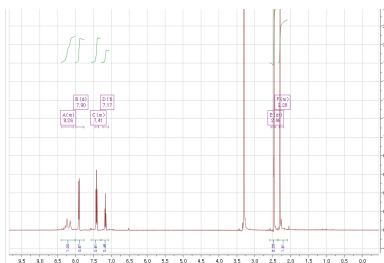


Flamma® Fluors NA series dyes are equipped with various reactive groups that enable to fulfill a wide range of research and commercial applications.

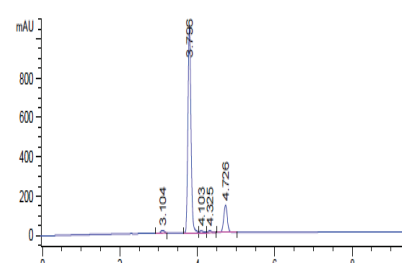
LC-MS



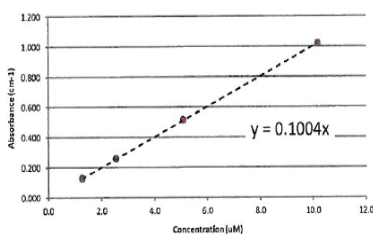
NMR



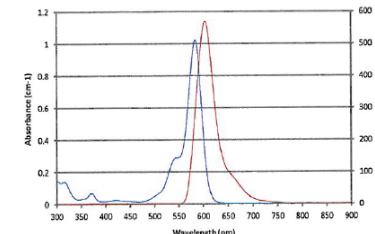
HPLC



Extinction Coefficient



Optical Analysis



Reactivity Analysis

Correction Factor	Solvent: PBS		Qual
	CF ₂₈₀ (A/B)	Abs. at 280 nm (A)	
Test 01	0.100	0.164	cm ⁻¹
Test 02	0.097	0.082	cm ⁻¹
Test 03	0.095	0.041	cm ⁻¹
Test 04	0.094	0.020	cm ⁻¹
	0.098		Specification

Reactive Conjugation			
	Abs. at 280 nm (A)	Abs. at 675 nm (B)	Qual
Asorbance	0.23757	1.0638	cm ⁻¹
[Dye (C)] =	4.84	M	[Dye Extractor]
[Protein (D)] =	3.24	M	[A-CF ₂₈₀ Protein Extraction]
D/P ratio (C/D) =	1.49		Specification



Nucleotide Labeling Dyes & Quencher

High Sensitivity & Specificity, Cost Effective

Selection of Fluorescent Dyes & Quencher

Cat. No.	Product Name	ExMax (nm)	EmMax (nm)	Similar Dyes	Packing Unit
PNS1122	Flamma [®] 552NA NHS ester	553	570	Cy [®] 3, Quasar [®] 570	1, 5, 25 mg
PNS1415	Flamma [®] 581NA NHS ester	590	608	ROX, Cy [®] 3.5	1, 5, 25 mg
KNS1001	Flamma [®] 594NA NHS ester	583	603	Texas Red [®] , CAL Fluor [®] Red 610	1, 5, 25 mg
PNS1215	Flamma [®] 648NA NHS ester	646	665	Cy [®] 5, Quasar [®] 670	1, 5, 25 mg
PNS1515	Flamma [®] 675NA NHS ester	686	709	Cy [®] 5.5, Quasar [®] 705	1, 5, 25 mg
COS1030	Flamma [®] HEX NA NHS ester	535	556	HEX, JOE, VIC, CAL Fluor [®] Orange 560	1, 5, 25 mg
COS1022	Flamma [®] TET NA NHS ester	521	536	TET, CAL Fluor [®] Gold 540	1, 5, 25 mg
QWS1001	qFlamma [®] Black01 NHS ester	400 ~ 800	-	BHQ-1, BHQ-2, BHQ-3	1, 5, 25 mg

Most of commercially available dyes & quenchers can be replaced by Flamma[®]Fluors NA series and qFlamma[®]Quencher

Quencher Pairs

Product Name	Available Quencher	Quenching Range
Flamma [®] 552NA NHS ester	qFlamma [®] Blank01 Quencher	400 ~ 800 nm
Flamma [®] 581NA NHS ester	qFlamma [®] Blank01 Quencher	400 ~ 800 nm
Flamma [®] 594NA NHS ester	qFlamma [®] Blank01 Quencher	400 ~ 800 nm
Flamma [®] 648NA NHS ester	qFlamma [®] Blank01 Quencher	400 ~ 800 nm
Flamma [®] 675NA NHS ester	qFlamma [®] Blank01 Quencher	400 ~ 800 nm
Flamma [®] HEX NA NHS ester	qFlamma [®] Blank01 Quencher	400 ~ 800 nm
Flamma [®] TET NA NHS ester	qFlamma [®] Blank01 Quencher	400 ~ 800 nm

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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