

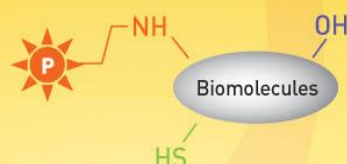
Flamma™ Fluors

F l u o r e s c e n t P r o b e s

Flamma™ P Series

Pre-activated fluorescent dyes.

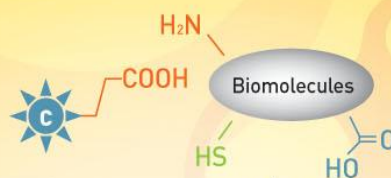
- Highly water stable
- Organic solvent free
- Wide range of binding targets
- pH / temperature stable
- No by-product generated



Flamma™ C Series

Non-activated fluorophores

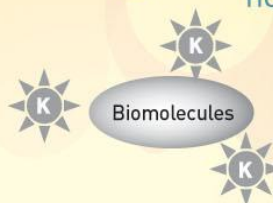
- Easily activated as NHS ester, maleimide, biotin derivatives, and other reactive hand
- Various functional groups for dye/biomolecule activation



Flamma™ K Series

Designed to be applied in hydrophobic environments.

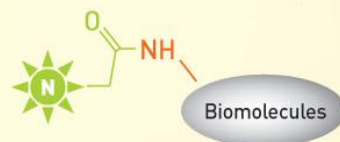
- Very soluble in organic solvent
- Non-covalent bonding
- Near-IR fluorescence for in-vivo imaging



Flamma™ N Series

NHS-type reactive probes

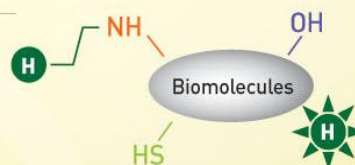
- Generic dyes + NHS ester
- High purity
- Custom-synthesis available for your new research



Flamma™ H Series

pH sensitive dyes (under development)

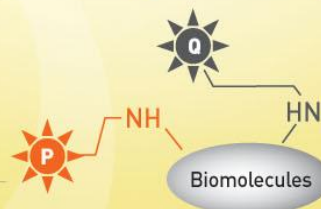
- Amine reactive pH indicator



Flamma™ Q Series

Quenchers (under development)

- High molecular absorption coefficient
- Various water-soluble quenchers



Commonly Used dyes

- FITC, RITC, XRITC, Indocyanine Green, TAMRA, FAM, and etc.
- Low price, High quality

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Products Overview

Flamma™ Fluors Products

Product Name	Code No.	Replacement Product	Formula	λabs	λem	εmax(m ⁻¹ cm ⁻¹)	MW,g/mol	Purity(%)	
Flamma™ P Series	FPG-456	CWA1020	FITC, Alexa 488	C ₂₅ H ₂₁ NO ₆ S	495nm	522nm	5.29 x 10 ⁴	495.50	99
	FPG-496	CWA1061	Oregon Green488	C ₃₄ H ₁₇ F ₂ NO ₂ S	494nm	523nm	7.74 x 10 ⁵	529.47	99
	FPG-507	CWA1058	Alexa514	C ₂₈ H ₁₇ Cl ₂ NO ₂ S	507nm	532nm	9.89 x 10 ⁴	562.38	99
	FPG-530	KWA1057	Alexa532	C ₃₁ H ₃₃ N ₃ O ₅ S	530nm	558nm	4.12 x 10 ⁴	575.68	99
	FPR-552	PWA1119	Cy3, Alexa555	C ₃₆ H ₅₁ N ₃ O ₅ S ₂	551nm	570nm	1.32 x 10 ⁵	790.02	99
	FPR-553	KWA1020	TRITC, Alexa546	C ₂₉ H ₃₁ N ₃ O ₅ S	554nm	584nm	4.97 x 10 ⁴	549.64	99
	FPR-560	KWA1022	RITC	C ₂₃ H ₃₉ N ₃ O ₅ S	560nm	589nm	6.43 x 10 ⁴	605.74	99
	FPR-575	KWA1042	Rhodamine Red X	C ₃₇ H ₃₇ N ₃ O ₅ S	578nm	606nm	3.13 x 10 ⁵	651.77	99
	FPR-581	PWA1415	Cy3.5, Alexa568	C ₃₅ H ₅₃ N ₃ O ₁₅ S ₂	578nm	595nm	7.27 x 10 ⁴	1036.24	99
	FPR-648	PWA1215	Cy5, Alexa647	C ₃₇ H ₅₁ N ₃ O ₉ S ₂	648nm	672nm	2.02 x 10 ⁵	802.03	99
	FPR-675	PWA1515	Cy5.5, Alexa660	C ₄₇ H ₆₉ N ₃ O ₁₅ S ₂	675nm	698nm	1.71 x 10 ⁵	1062.28	99
	FPI-749	PWA1308	Cy7, Alexa750	C ₄₁ H ₅₃ N ₃ O ₉ S ₂	750nm	782nm	2.22 x 10 ⁵	828.07	99
	FPI-774	PWA1609	Cy7.5	C ₄₇ H ₅₃ N ₃ O ₁₅ S ₂	777nm	802nm	1.50 x 10 ⁵	1060.26	99
	Flamma™ C Series	FCG-507	CWC1058	Alexa514	C ₂₁ H ₁₉ Cl ₂ O ₇	513nm	535nm	1.74 x 10 ⁵	445.21
FCG-530		KWC1057	Alexa532	C ₂₇ H ₂₁ N ₃ O ₅	526nm	556nm	1.59 x 10 ⁴	458.51	99
FCR-552		PWC1119	Cy3, Alexa555	C ₃₄ H ₄₄ N ₃ O ₉ S ₂	551nm	570nm	9.99 x 10 ⁴	672.85	99
FCR-575		KWC1039	Rhodamine Red X	C ₃₃ H ₃₀ N ₃ O ₅	576nm	604nm	9.05 x 10 ⁴	534.60	99
FCR-581		PWC1416	Cy3.5, Alexa568	C ₃₄ H ₄₄ N ₃ O ₁₄ S ₂	579nm	602nm	8.87 x 10 ⁴	919.07	99
FCR-648		PWC1216	Cy5, Alexa647	C ₃₆ H ₄₄ N ₃ O ₈ S ₂	647nm	672nm	1.79 x 10 ⁵	684.86	99
FCR-675		PWC1516	Cy5.5, Alexa660	C ₄₃ H ₄₉ N ₃ O ₁₆ S ₂	675nm	703nm	1.26 x 10 ⁵	945.11	99
FCI-749		PWC1301	Cy7, Alexa750	C ₃₇ H ₄₄ N ₃ O ₉ S ₂	749nm	782nm	1.78 x 10 ⁵	710.90	99
FCI-774		PWC1601	Cy7.5	C ₄₃ H ₄₄ N ₃ O ₁₆ S ₂	778nm	808nm	7.36 x 10 ⁴	943.09	99
Flamma™ K Series	FKR-552		under development		544nm	563nm	-	-	99
	FKR-581		under development		570nm	588nm	-	-	99
	FKR-648		under development		641nm	667nm	-	-	99
	FKR-675		under development		667nm	689nm	Available after 2010. 06		99
	FKI-749	POC1219	-	C ₃₃ H ₄₃ N ₂	740nm	778nm	1.39 x 10 ⁵	467.71	99
FKI-774		under development		769nm	794nm	Available after 2010. 06		99	
Flamma™ N Series	FNG-456	CWS1025	FAM-NHS	C ₂₅ H ₁₇ NO ₉	495nm	521nm	1.78 x 10 ⁵	475.40	99
	FNR-553	KWS1025	-	C ₂₉ H ₂₇ N ₃ O ₇	554nm	587nm	5.82 x 10 ⁵	529.54	99
	FNR-560	KWS1028	TAMRA	C ₃₂ H ₃₈ N ₃ O ₇	560nm	593nm	8.45 x 10 ⁴	585.65	99
Flamma™ H Series	FHR-548	HWA1120		C ₃₃ H ₄₁ N ₃ O ₉ S ₃	474nm	x		719.89	99
	FHR-644	HWA1220	The verification tests are currently in progress	C ₃₆ H ₄₃ N ₃ O ₉ S ₃	548nm	572nm	Available after 2010. 06	745.93	99
	FHI-743	HWA1320		C ₃₇ H ₄₅ N ₃ O ₉ S ₃	501nm	x		771.96	99
Flamma™ Q Series	FQB-523	QOA1001	BHQ-1	C ₃₂ H ₃₉ N ₃ O ₉ S	548nm	572nm	Available after 2010. 06	649.76	99
	FQB-556	QOA1002	BHQ-2	C ₃₁ H ₃₇ N ₃ O ₉ S	x	556nm		651.73	99
	FQB-656	QOA1003	BHQ-3	C ₄₀ H ₄₆ ClN ₃ O ₂ S	x	656nm		742.37	99

*All the above products are available in the packages of 1mg, 5mg, 10mg and 25mg

Special Package Products

Kit Name	Product Name	Unit	Price
Flamma™ P Series Test Pack	FPG-456, FPG-496, FPR-552, FPR-560, FPR-581, FPR-648, FPR-675, FPI-749, FPI-774, coupling buffer	1mgx10ea	These package products are available at discounted prices until the end of 2010.
Flamma™ P Series Two dyes Pack (for Gel Electrophoresis)	FPR-552, FPR-648, Coupling buffer	2mgx2ea	

Other products

Product Name	Product Name
Fluorescein 5-isothiocyanate	5-carboxytetramethylrhodamine
Fluorescein 5(6)-isothiocyanate	5(6)-carboxytetramethylrhodamine
5-carboxyfluorescein	Rhodamine 5-isothiocyanate
5(6)-carboxyfluorescein	Rhodamine 5(6)-isothiocyanate
Indocyanine green	-