

Overview of reactive fluorescent dyes

www.lumiprobe.com

Fluorophore:	R ¹ /R ²	Target:		Alkyne (ethynyl)	Azide	NHS ester	Maleimide	Hydrazide	Primary amine	Carboxyl	Phosphoramidite
		Abs. max. (nm)	Em. max. (nm)	Azide (click chemistry)	Ethynyl group (click chemistry)	Primary amine (peptides, proteins, amino-labeled DNA)	Sulphydryl group (peptides, proteins)	Carbonyl group (aldehydes, ketones)	Electrophilic reagents (like activated esters)	none	DNA (oligo synthesis)
Pyrene		320 376	380	•15B0*	•1530* •2530*	•3520*				•3590*	•1460
PEP		362 384	389		•4530*						
Perylene		410 434	436 465	•55B0*	•5530*						
Coumarin 343		437	477		•1430*						
BDP FL		503	509	•14B0	•1430*	•1420	•1480				
FAM		494	520	•41B0 (5-isomer) •51B0 (6-isomer)	•4130 (5-isomer) •5130 (6-isomer)						•5160 (6-isomer)
Cyanine 3		555	570	•10B0	•1030	•1020	•1080	•1070	•10C0	•1090	
Sulfo-Cyanine 3		548	563	•13B0	•1330	•1320	•1380			•1390	
TAMRA		556	563	•71B0 (5-isomer)	•7130 (5-isomer)						
ROX		570	591		•1230 (5-isomer)	•2220 (6-isomer)					
Cyanine 3.5		591	604		•2030	•2020				•2090	
Cyanine 5		646	662	•30B0	•3030	•3020	•3080	•3070	•30C0	•3090	
Sulfo-Cyanine 5		646	662	•33B0	•3330	•3320	•3380			•3390	
Cyanine 5.5		673	707	•70B0	•4030	•7020	•7080	•7070	•70C0	•7090	
Cyanine 7		750	773	•50B0	•5030	•5020	•5080	•5070	•50C0	•5090	
Sulfo-Cyanine 7		750	773		•5330	•5320			•53C0	•5390	
Cyanine 7.5		788	808	•60B0	•6030	•6020	•6080	•6070	•60C0	•6090	

* The structure of this particular product deviates from the one inferred from this table. Please see the product web page for the exact structure.

• The dot represents the first digit of the product number, which indicates the amount. Please visit www.lumiprobe.com to check for available package sizes.

Lumiprobe Corporation
US and worldwide

1835 E. Hallandale Beach Blvd. #221
Hallandale Beach
33009 Florida
USA
Phone: +1 888 973 6353
Fax: +1 888 973 6354
Email: order@lumiprobe.com

Lumiprobe GmbH
Germany and Europe

Feodor-Lynen-Str. 23
30625 Hannover
Germany
Phone: +49 511 16596811
Fax: +49 511 16596815
Email: de@lumiprobe.com