

http://www.setabiomedicals.com e-mail: info@setabiomedicals.com Product number: K5-3222 Product name: 5-(and-6)-Carboxy-X-rhodamine, inner salt, NHS ester

General Data

Molecular Mass:	631.67		
Solubility:	Water, Alcohol, DMF, DMSO		
Insoluble:	Acetone, Chloroform, Toluene		
Storage:	Store out of light, desiccated and refrigerate		

Description

Amine-reactive, neutral fluorescent label containing one reactive NHS-ester groups

Applications

• Covalent labeling of proteins, amino-modified DNA and amino-modified oligonucleotides

Advantages

- Perfectly suited for excitation with the 532-nm diode laser
- Sensitive; high extinction coefficient and high quantum yield up to 55% after covalent attachment to proteins
- Good aqueous solubility; this label does not alter the solubility of the dye-conjugate
- Low molecular weight K5-3222 does not add substantial mass to the conjugates
- Ideal for non-radioactive labeling of proteins, amino-modified DNA probes and amino-modified oligonucleotides

Spectral Data

Sample	Dye-to-protein Ratio	Solvent System	Absorption max. [nm]	Extinction Coefficient [M ⁻¹ ·cm ⁻¹]	Fluorescence ¹ max. [nm]	Quantum Yield [%]
Free dye	_	Water	578	90,000	602	55
BSA conjugate 1	0.1	PB 7.4	585		605	41
BSA conjugate 2	0.2	PB 7.4	585		605	37
BSA conjugate 3	0.5	PB 7.4	585		606	26
BSA conjugate 4	1	PB 7.4	585		608	15
BSA conjugate 5	1.5	PB 7.4	585		609	8

¹ Excitation at 532 nm



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