

Product number: K1-204
Product name: SeTau-380-NHS

General Data

Molecular Mass: 730.93
472.44 (protonated form)

Solubility: water, alcohol, DMF, DMSO

Insoluble: acetone, chloroform, toluene

Storage: Store in absence of light, desiccated and refrigerate

Description

Highly hydrophilic, amine-reactive, long-lifetime fluorescent label containing one NHS-ester group

Applications

- Covalent labeling of proteins, amino-modified DNA, amino-modified oligonucleotides and lipids
- Fluorescence lifetime applications
- Fluorescence polarization-based assays of high molecular-weight antigens

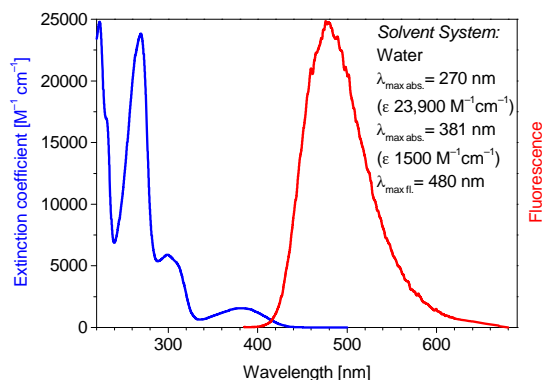
Advantages

- Strongly fluorescent label for proteins, oligonucleotides and other biomolecules
- Perfectly suited for excitation with the 280-nm LED, 370-nm and 405-nm diode lasers
- Large Stokes' shift
- Long fluorescence lifetime in aqueous buffer
- High fundamental polarization in absence of rotational motion.
- Highly soluble in aqueous buffers.

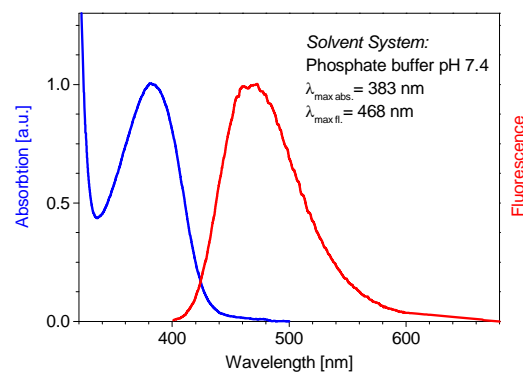
Spectral Data

Sample	Absorption max. [nm]	Extinction Coefficient [M ⁻¹ ·cm ⁻¹]	Fluorescence ¹ max. [nm]	Q.Y. [%]	Luminescence Lifetime [ns]			Polarization
					τ ₁	τ ₂	Mean τ	
Free dye in water	270	23,800	480	56	32.5 (100%)	—	32.5	
	381	1,500	480	56	32.5 (100%)	—	32.5	
BSA conjugate in water	383		468	44	31.9 (94%)	10.9 (6%)	30.6	0.08

¹ Excitation at 380 nm



Absorption and emission spectra of **K1-204** in water



Absorption and emission spectra of **K1-204 — BSA conjugate** in phosphate buffer (pH 7.4)