

Product number: K9-4119

Product name: SeTau-665-mono-NHS

General Data

Molecular Mass: 1936.40

Solubility: Water, Alcohol, DMF, DMSO

Insoluble: Acetone, Chloroform, Toluene

Storage: Store in absence of light, desiccate and refrigerate

Description

Amine-reactive fluorescent label containing two reactive NHS-ester groups

Applications

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

Fluorescence Polarization Label - this label combines a long lifetime and high fundamental anisotropy

Advantages

- Perfectly suited for excitation with the 665-nm, 650-nm, or 647-nm lasers
- **Extremely sensitive:** high extinction coefficients and high quantum yields of 60% in aqueous environments
- **Good aqueous solubility:** this label does not alter the solubility of the protein conjugate
- **Ozone stability:** Higher ozone stability than **Alexa Fluor™ 647** or **Cy5** enables array experiments to be performed with **SeTau 665** under any environmental condition
- **Low molecular weight:** **SeTau** dyes do not add substantial mass to the conjugates
- **Photostability:** Much higher photostability than **Alexa Fluor™ 647** or **Cy5**
- **Long fluorescence lifetime:** ~ 3 ns in water
- Ideal for non-radioactive labeling of proteins, amino-modified DNA probes and amino-modified oligonucleotides

Spectral Data

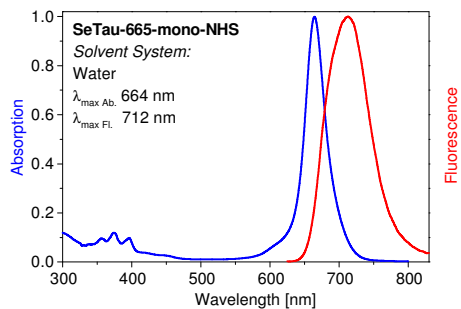
Solvent System: water

Sample	Dye-to-protein Ratio	Absorption max. [nm]	Extinction Coefficient [$M^{-1}\cdot cm^{-1}$]	Fluorescence* max. [nm]	Quantum Yield [%]	Fluorescence Lifetime [ns]
Free dye	—	664	161,000	712	53	3 ns

* Excitation at 620 nm

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Absorption and emission spectrum
of a **SeTau-665-mono-NHS** in phosphate buffer
(pH 7.4)