

Product number: K7-549
Product name: SeTau-404-NHS

General Data

- Molecular Mass:** 543.02
Solubility: water, alcohol, DMF, DMSO
Insoluble: acetone, chloroform, toluene
Storage: Store in absence of light, desiccated and refrigerate

Description

Hydrophilic, amine-reactive, long-lifetime fluorescent label containing one NHS-ester group.

Applications

- Covalent labeling of proteins, peptides, amino-modified DNA, amino-modified oligo-nucleotides and lipids.
- Fluorescence lifetime assays.
- Fluorescence polarization-based assays of high molecular weight antigens.

Advantages

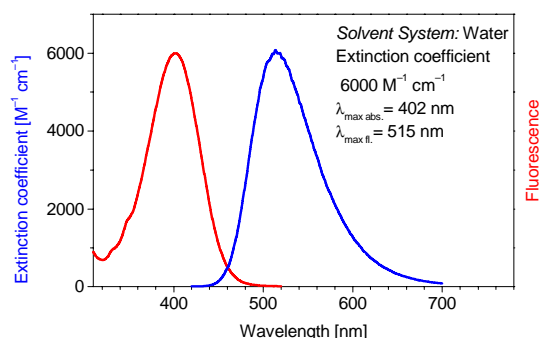
- Highly fluorescent label for proteins and other biomolecules.
- Long fluorescence lifetime of 9.9 ns in water
- Perfectly suited for excitation with the 380-nm and 404-nm diode lasers
- Large Stokes' shift (> 100nm)
- High fundamental polarization (~ 0.5)
- Highly soluble in aqueous buffer

Spectral Data

Solvent System: water

Sample	Absorption max. [nm]	Extinction Coefficient [$M^{-1}\cdot cm^{-1}$]	Fluorescence* max. [nm]	Lifetime [ns]
Free dye	402	6,000	515	9.9

* Excitation at 400 nm



Absorption and emission spectra of **K7-549** in water