Product number: K7-545
Product name: SeTau-425-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, with one positive charge and chloride as the counter-ion.

Applications
- Covalent labeling of proteins, peptides, amino-modified DNA, amino-modified oligonucleotides and lipids.
- Fluorescence lifetime assays.
- Measurement of high-molecular-weight antigens in Fluorescence Polarization Immunoassays.

Advantages
- Strongly fluorescent label for proteins and other biomolecules
- Long fluorescence lifetime of 26.2 ns in water
- Perfectly suited for excitation with the 380-nm, 404-nm and 436-nm diode lasers or the new 330-nm LED.
- Large Stokes’ shift (> 100nm)
- Highly soluble in aqueous buffer

Spectral Data

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<td>—</td>
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<td>4,200</td>
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<td>532</td>
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<td>10</td>
<td>165</td>
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1 Excitation at 400 nm
**Product number:** K7-545  
**Product name:** SeTau-425-NHS

Absorption and emission spectrum of **SeTau-425** in water

Absorption and emission spectrum of **SeTau-425—BSA conjugate** (Dye-to-protein Ratio 1.8) in phosphate buffer (pH 7.4)

Quantum Yield vs Dye-to-protein Ratio of **SeTau-425—BSA conjugates**

Changes in Fluorescence Polarization of **SeTau-425—BSA** (MW ~ 65 kDa) upon titration with anti-BSA. The labeled BSA species has still a relatively low polarization of 165 mP and only upon addition of antibody the polarization increases gradually to its final value of 335 mP, which demonstrates the usefulness of this label for the measurement of high-molecular-weight antigens in a Fluorescence Polarization Immunoassay (FPA).