

Product number: K9-3153

Product name: SeTau-488-Maleimide

General Data

Molecular Mass: 1667.80
1409.30 (protonated form)
Solubility: Water, Alcohol, DMF, DMSO
Insoluble: Hexane
Storage: Store in absence of light, desiccate and refrigerate

Description

- Bright, ultra-stable, and water-soluble label featuring a single maleimide group. Designed for 440–488 nm excitation and fully compatible with Alexa 488 and FITC filter sets.

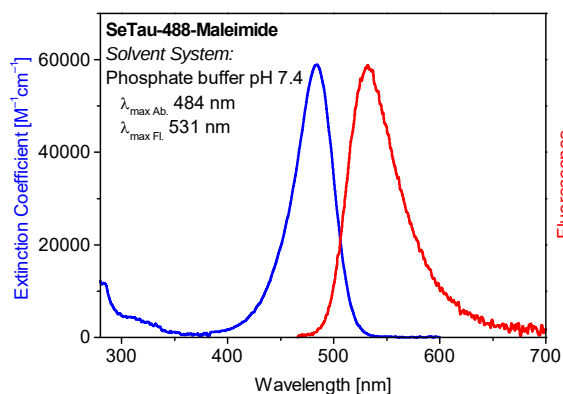
Advantages

- Perfect choice for protein and thiol-modified biomolecule labeling, including oligonucleotides.
- Brighter and more photostable alternative to fluorescein-based labels, including Alexa 488 and FITC
- Stokes' shift of ~50 nm (larger than that for FITC and Alexa 488), enabling improved discrimination between emission signal and excitation light
- Exceptional chemical resistance to oxidation by peroxides and reactive oxygen species, ensuring consistent performance

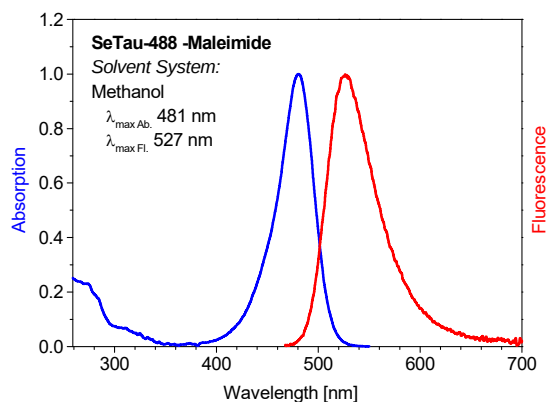
Spectral Data

Solvent system	Absorption max. [nm]	Extinction Coefficient [M ⁻¹ cm ⁻¹]	Fluorescence max. [nm]	Quantum Yield ¹ [%]
Phosphate buffer pH 7.4	484	59,000	531	14
Methanol	481		527	27

¹ Fluorescein in 0.1N NaOH was used as the reference. $\lambda_{Ex.} = 460$ nm.



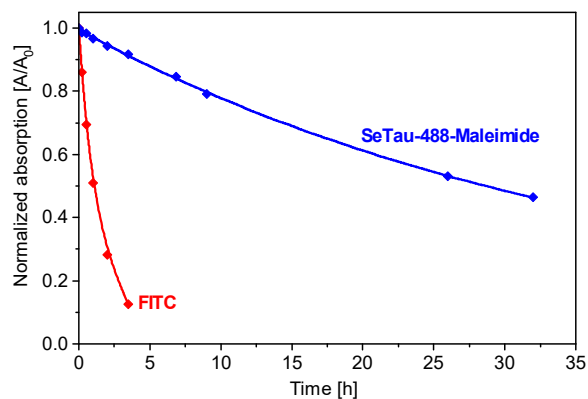
Absorption and emission spectrum of **SeTau-488-Maleimide** in phosphate buffer (pH 7.4)



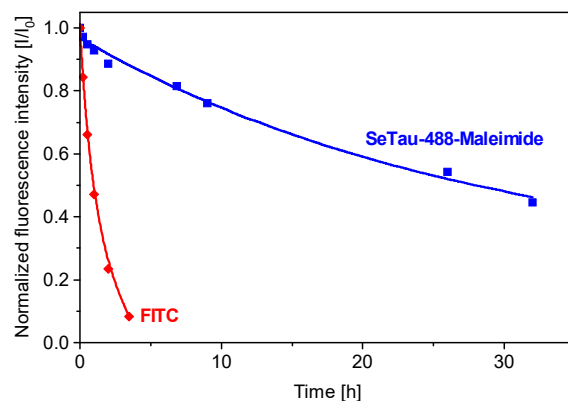
Absorption and emission spectrum of **SeTau-488-Maleimide** in methanol

Product number: K9-3153

Product name: SeTau-488-Maleimide



Decrease of the long-wavelength absorption of **SeTau-488-Maleimide** compared to **FITC** upon irradiation with a warm light LED (illuminance ~ 4,000 Lux)



Decrease of fluorescence intensity of **SeTau-488-Maleimide** compared to **FITC** upon irradiation with a warm light LED (illuminance ~ 4,000 Lux)