SETA BioMedicals
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Product number: K7-2
Product name: SeTau-385

General Data

Molecular Mass: 270.28

Solubility: Benzene, Toluene, DMF

Insoluble: Water

Storage: Store in absence of light, desiccate and refrigerate

Description

- Highly bright, hydrophobic fluorescent dye.

Applications

- Fluorescence lifetime standard.

Advantages

- Perfectly suited for excitation with 350–405-nm LEDs and diode lasers.
- Long fluorescence lifetime.
- Large Stokes' shift.
- Highly photostable and hilghly thermostable.

Spectral Data

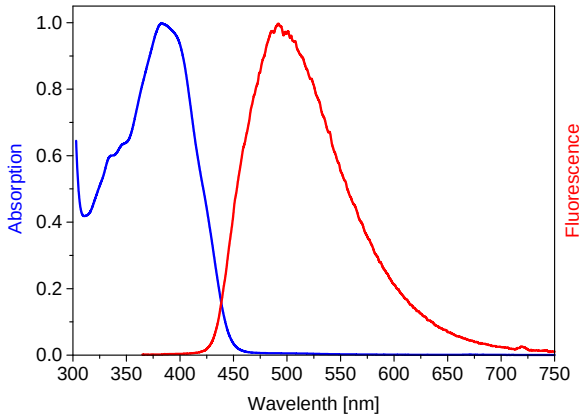
Solvent System	Absorption max. [nm]	Extinction Coefficient [M^{-1}·cm^{-1}]	Fluorescence max. [nm]	Quantum Yield [%]	Fluorescence Lifetime [ns]
Toluene	385	12,000	490	56[1]	10.3[2]; 10.5[3]; 10.4[4]

[1] Excitation at 355 nm.

[2] ISS Chronos FD, $\lambda_{ex.}$ = 370 nm LED nm, **τ = 10.3 ns**, χ^2 =1.16.

[3] ISS Chronos BH, *vs.* Ludox, $\lambda_{ex.}$ = 370 nm LED, **τ = 10.5±0.02 ns**, χ^2 =1.14.

[4] ISS Chronos BH, *vs.* Ludox, $\lambda_{ex.}$ = 408 nm LED, **τ = 10.4±0.02 ns**, χ^2 =1.28.



Absorption and emission spectrum of **K7-2** in toluene