

Product Data Sheet

Date of Issue: 7 Oct 2021

1. Product Information

- Product Name : Flamma®496 Thiol
- Catalog Number : CWT1001
- Packing Unit : 1 mg / 5 mg / 25 mg
- Appearance : Yellow to Orange Solid
- Storage Conditions : Protect from Light at -20 °C

2. Additional Information

- Fluorophore Label : Flamma® 496
- Reactive Group : Thiol
- Reactive Toward : Primary amine on proteins and ligands, amine-modified oligonucleotides
- Molecular Weight : 473.35 g/mol
- Excitation_{Max} : 496 ± 3 nm
- Emission_{Max} : 520 ± 4 nm
- Extinction Coefficient : ≥ 49,000 /cm·M

3. Description

Flamma® Fluors 496 Thiol is inactive form of bright green fluorescent dye induced from fluorescein structure and used to generate a stable fluorescence signal in bioimaging. The thiol is attached to Flamma 496 fluorophore through a spacer. The maxima of Ex/Em values are at 496/520 nm, similar to that of Fluorescein. Flamma 496 might be excited using 488 nm laser line and displays excellent optical property. Flamma® Fluors 496 thiol can be labeled to biomolecules through a disulfide bond formation with thiol of cysteine residue or can be utilized as a reference standard for dye-conjugates.