

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} :	$496 \pm 3 \text{ nm}$
• Emission _{Max} :	$520 \pm 4 \text{ nm}$
• Extinction Coefficient :	\geq 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.

WARNING: Intended for research use only. This product is not intended or approved for human, diagnostics, therapeutic or veterinary use. Use of this product for human or animal testing is extremely hazardous and may result in disease, severe injury, or death. MATERIAL SAFETY DATA: Review the complete Material Safety Data Sheet before use Material Safety Data Sheet (MSDS), Certificate of Analysis (COA) and Technical Information are available at http://www.bioacts.com or upon request.