

Product Data Sheet

Date of Issue: 7 Oct 2021

1. Product Information

- Product Name : Flamma® 774 Thiol
- Catalog Number : PWT1515
- Packing Unit : 1 mg / 5 mg / 25 mg
- Appearance : Green Solid
- Storage Conditions : Protect from Light at -20 °C

2. Additional Information

• Fluorophore Label :	Flamma® 774
• Reactive Group :	Thiol
• Reactive Toward :	Primary amine on proteins and ligands, amine-modified oligonucleotides
• Molecular Weight :	988.2 g/mol
• Excitation _{Max} :	$774 \pm 3 \text{ nm}$
• Emission _{Max} :	$800 \pm 4 \text{ nm}$
• Extinction Coefficient :	\geq 182,000 /cm·M

3. Description

Flamma[®] Fluors 774 Thiol is inactive form of near infrared (NIR) fluorescent dye and used to generate a stable fluorescence signal with high signal-to-noise ratio. The thiol is attached to Flamma 774 fluorophore through a spacer. The maxima of Ex/Em values are at 774/800 nm, similar to that of IRDye 800, Cy7.5 and CF770. Flamma 774 might be excited using 750 or 785 nm laser line or dye-pumped laser excitation and the emission occurs at NIR region. Flamma[®] Fluors 774 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.