

Product Data Sheet

Date of Issue: 7 Oct 2021

1. Product Information

- Product Name : Flamma® 800 Vinylsulfone
- Catalog Number : POA1803
- Packing Unit : 1 mg / 5 mg / 25 mg
- Appearance : Green Solid
- Storage Conditions : Protect from Light at 4 °C

2. Additional Information

- Fluorophore Label : Flamma® 800
- Reactive Group : Vinylsulfone
- Reactive Toward : Primary amine on proteins and ligands, amine-modified oligonucleotides
- Molecular Weight : 1117 g/mol
- Excitation_{Max} : 774 ± 3 nm
- Emission_{Max} : 791 ± 4 nm
- Extinction Coefficient : ≥ 191,000 /cm·M

3. Description

Flamma® Fluors 800 Vinylsulfone is pH insensitive reactive form of near infrared (NIR) fluorescent dye and used to generate a stable fluorescence signal with high signal-to-noise ratio. The maxima of Ex/Em values are at 774/791 nm, similar to that of IRDye 800, Cy7.5 and CF770. Flamma 800 dyes might be excited using 750 or 785 nm laser line or dye-pumped laser excitation and the emission occurs at NIR region. Flamma Fluors 800 is ideal for protein, antibody and nucleic acid labeling for in vitro imaging and other fluorescence detection methods. Vinylsulfones readily react with primary amines of amino-modified oligonucleotides or of proteins to form a stable amino linkage between dye and the biomolecule. We offer Flamma Fluors 800 Vinylsulfone for labeling of antibodies, peptides, proteins, ligands and in vivo NIR imaging.