

Product Data Sheet

Date of Issue: 5 Oct 2021

1. Product Information

- Product Name : Flamma® 774 NHS ester
- Catalog Number : PWS1603
- 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 : NHS ester
- Reactive Toward : Primary amine on proteins and ligands, amine-modified oligonucleotides
- Molecular Weight : 1024.18 g/mol
- Excitation_{Max} : 774 ± 3 nm
- Emission_{Max} : 800 ± 4 nm
- Extinction Coefficient : ≥ 195,000 /cm·M

3. Description

Flamma® Fluors 774 NHS ester is a 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 774/806 nm, similar to that of IRDye 800, Cy7.5 and CF770. Flamma 774 might be excited using the 633 nm laser line or dye-pumped laser excitation and the emission occurs at NIR region. Flamma Fluors 774 is ideal for protein, antibody and nucleic acid labeling for in vitro imaging and other fluorescence detection methods. NHS esters readily react with amine-modified oligonucleotides or amino groups of proteins, i.e. the ε-amino groups of lysine or the amine terminus of nucleotides to form a chemically stable amide bond between dye and the biomolecule. We offer Flamma Fluors 774 dye for labeling of antibodies, peptides, proteins, ligands, and amplification substrates optimized for in vitro imaging.