

Product Data Sheet

Date of Issue: 7 Oct 2021

1. Product Information

- Product Name : Flamma® 774 Carboxylic acid
- Catalog Number : PWC1603
- 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® 774
- Reactive Group : Carboxylic acid
- Reactive Toward : Primary amine on proteins and ligands, amine-modified oligonucleotides
- Molecular Weight : 929.06 g/mol
- Excitation_{Max} : 774 ± 3 nm
- Emission_{Max} : 800 ± 4 nm
- Extinction Coefficient : ≥ 182,000 /cm·M

3. Description

Flamma® Fluors 774 Carboxylic acid is inactive 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 750 or 785 nm laser line or dye-pumped laser excitation and the emission occurs at NIR region. Flamma 774 acid might be coupled with primary amine at small molecules or on biomolecules by standard amide bond coupling conditions, or it might be converted to a reactive amine form by using standard chemical techniques. Flamma® Fluors 774 acid can be utilized as a reference standard for dye-conjugates.