

# Product Data Sheet

Date of Issue: 7 Oct 2021

## 1. Product Information

- Product Name : Flamma® 774 Amine
- Catalog Number : PWE1603
- 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 : Amine
- Reactive Toward : Carboxyl group
- Molecular Weight : 971.15 g/mol
- Excitation<sub>Max</sub> : 774 ± 3 nm
- Emission<sub>Max</sub> : 800 ± 4 nm
- Extinction Coefficient : ≥ 182,000 /cm·M

## 3. Description

Flamma® Fluors 774 Amine is inactive form of near infrared (NIR) fluorescent dye and used to generate a stable fluorescence signal with high signal-to-noise ratio. The primary amine is attached to Flamma 774 through a spacer. 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® Fluors 774 amine can be coupled with carboxylic acids at small molecules or on biomolecules by standard amide bond coupling conditions or can be utilized as a reference standard for dye-conjugates.