

# Product Data Sheet

Date of Issue: 7 Oct 2021

## 1. Product Information

- Product Name : Flamma® 774 Hydrazide
- Catalog Number : PWH1603
- Packing Unit : 1mg / 5mg / 25 mg
- Appearance : Green Solid
- Storage Conditions : Protect from Light at -20 °C

## 2. Additional Information

- Fluorophore Label : Flamma® 774
- Reactive Group : Hydrazide
- Reactive Toward : Aldehyde, Ketone
- Molecular Weight : 943.09 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 hydrazide 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 774/800 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. Hydrazides can label aldehyde and ketone through reductive amination reaction to form an imine linkage. The main labeling target for hydrazides are free reducing sugars on biomolecules, and prior to conjugation, primary and secondary alcohols on polysaccharide and glycoprotein are usually oxidized to aldehyde and ketone. We offer Flamma Fluors 774 hydrazide for labeling of polysaccharide, glycoprotein and other biomolecules bearing aldehyde or ketone.