

Product Data Sheet

Date of Issue: 7 Oct 2021

1. Product Information

- Product Name : Flamma® 774 Dichlorotriazine
- Catalog Number : PWR2603
- 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® Fluors 774
- Reactive Group : Dichlorotriazine
- Molecular Weight : 1119.1 g/mol
- Excitation_{Max} : 774 ± 3 nm
- Emission_{Max} : 800 ± 4 nm
- Extinction Coefficient : ≥ 141,000 /cm·M

3. Description

Flamma® Fluors 774 Dichlorotriazine is a hydroxyl reactive 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 CF 770. Flamma 774 might be excited using 750 or 785 nm laser line or dye-pumped laser excitation and the emission occurs at NIR region. Hydroxyls irreversibly displace one of chlorines at triazine ring to yield an aryl ether linkage. Dichlorotriazines are among the few reactive groups that are reported to react directly with polysaccharides and other alcohols in aqueous solution, provided that the pH is >9 and other nucleophiles are not present. We offer Flamma Fluors 774 dichlorotriazine for labeling of polysaccharides and alcohols on biomolecules for cellular labeling and detection.