

## **Product Data Sheet**

Date of Issue: 7 Oct 2021

## 1. Product Information

• Product Name: Flamma® 749 Dichlorotriazine

· Catalog Number : PWR2301

• 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® 749

• Reactive Group : Dichlorotriazine

· Reactive Toward : Hydroxyl group

 $\cdot \ \, \text{Molecular Formula}: \qquad \quad C_{42}H_{51}Cl_2N_7O_7S_2$ 

• Molecular Weight: 900.93 g/mol

• Excitation  $_{\text{Max}}$ : 749 ± 3 nm

• Emission  $_{\text{Max}}$ : 774 ± 4 nm

• Extinction Coefficient :  $\geq 200,000 / \text{cm} \cdot \text{M}$ 

## 3. Description

Flamma® Fluors 749 Dichlorotriazine is a hydroxyl reactive near infrared (NIR) fluorescent dye induced from cyanine structure and used to generate a stable fluorescence signal in bioimaging. The maxima of Ex/Em values are at 749/774 nm, similar to that of Alexa 750, Cy7, IRDye 750 and DyLight 755. Flamma 749 might be excited using 750 nm laser line or dyepumped laser excitation and the emission occurs at biological tissue permeable 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 749 dichlorotriazine for labeling of polysaccharides and alcohols on biomolecules for cellular labeling and detection.