

Product Data Sheet

Date of Issue: 26 Nov 2019

1. Product Information

- Product Name : Flamma® 581 Dichlorotriazine
- Catalog Number : KWR2415
- Packing Unit : 1 mg / 5 mg / 25 mg
- Appearance : Purple Solid
- Storage Conditions : Protect from Light at -20 °C

2. Additional Information

- Fluorophore Label : Flamma® 581
- Reactive Group : Dichlorotriazine
- Reactive Toward : Hydroxyl group
- Molecular Weight : 1109.10 g/mol
- Excitation_{Max} : 578 ± 3 nm
- Emission_{Max} : 593 ± 4 nm
- Extinction Coefficient : ≥ 109,000 /cm·M

3. Description

Flamma® Fluors 581 Dichlorotriazine is a hydroxyl reactive orange fluorescent dye induced from benzindocyanine structure and used to generate a stable fluorescence signal in bioimaging. The maxima of Ex/Em values are at 578/593 nm, similar to that of Alexa 594 and DyLight 594. Flamma 581 might be excited using 561, 568 or 578 nm laser lines and displays excellent optical property. 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 581 dichlorotriazine for labeling of polysaccharides and alcohols on biomolecules for cellular labeling and detection.