

Product Data Sheet

Date of Issue: 22 Feb 2019

1. Product Information

- Product Name : ICG Dichlorotriazine
- Catalog Number : POR2616
- Packing Unit : 1mg / 5mg / 25 mg
- Appearance : Green Solid
- Storage Conditions : Protect from Light at -20 °C

2. Additional Information

- Fluorophore Label : ICG
- Reactive Group : Dichlorotriazine
- Reactive Toward : Hydroxyl group
- Molecular Formula : $C_{50}H_{55}C_{12}N_7O_4S$
- Molecular Weight : 920.9 g/mol
- Excitation_{Max} : 785 ± 3 nm
- Emission_{Max} : 811 ± 4 nm
- Extinction Coefficient : $\geq 218,000$ /cm·M

3. Description

ICG is a NIR fluorescent substance which obtain license for clinical uses from US FDA (Food and Drug administration), along with Methylene Blue. It is used in Ophthalmologic angiography, liver function tests, solid tumor detection in surgical operation and angiography. Because ICG effectively absorbs near infrared wavelength that is about 800nm and its absorption ratio for wavelength of visible light range is low, noises caused by Autofluorescence is low. ICG Dichlorotriazine is labeled on Hydroxyl group and used for fluorescence labeling of small molecule compounds such as hormone and saccharide.