

Product Data Sheet

Date of Issue: 7 Oct 2021

1. Product Information

- Product Name : ICG Amine
- Catalog Number : POE1616
- Packing Unit : 1mg / 5mg / 25mg
- Appearance : Green Solid
- Storage Conditions : Protect from Light at 4 °C

2. Additional Information

- Fluorophore Label : ICG
- Reactive Group : Amine
- Reactive Toward : Carboxyl group
- Molecular Formula : $C_{47}H_{56}N_4O_4S$
- Molecular Weight : 773.04 g/mol
- Excitation_{Max} : 785 ± 3 nm
- Emission_{Max} : 812 ± 4 nm
- Extinction Coefficient : $\geq 155,000$ /cm·M

3. Description

ICG Amine is an inactive form of near infrared (NIR) fluorescent dye and used to generate a stable fluorescence signal in bioimaging. The primary amine is attached to ICG fluorophore through a spacer. NIR fluorescence allows to observe the deep image from the surface of skin and being utilized in a wide range of research fields. The maxima of Ex/Em values are at 785/812 nm. ICG might be excited using 750-800 nm laser line or LED and displays excellent optical property. ICG amine can be coupled with carboxylic acids at small molecules or on biomolecules by standard amide bond coupling conditions or can be utilized as a reference standard for dye-conjugates.