

Product Data Sheet

Date of Issue: 7 Oct 2021

1. Product Information

- Product Name : Indocyanine green
- Catalog Number : RFP0815
- Packing Unit : 25 mg / 100 mg
- Appearance : Green Solid
- Storage Conditions : Protect from Light at 4 °C

2. Additional Information

- Fluorophore Label : ICG
- Molecular Formula : $C_{43}H_{48}N_2O_6S_2$
- Molecular Weight : 752.3 g/mol
- Excitation $_{Max}$: 785 ± 3 nm
- Emission $_{Max}$: 812 ± 4 nm
- Extinction Coefficient : $\geq 218,000$ /cm·M

3. Description

ICG dye is clinically approved near infrared (NIR) fluorescent dye and used in medical diagnostics, in vitro, vivo and animal model study. 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 785/821 nm. ICG might be excited using 750-800 nm laser line or LED and displays excellent optical property. When ICG is injected into a human body, it rapidly bound to plasma protein, mainly high-density lipoprotein, and generates red-shifted fluorescence (845 nm). ICG in aqueous solution is unstable over time, thus the fresh solution should be used for effective trials. BioActs provides ICG dye for various biological research and medical diagnostics.