

Product Data Sheet

Date of Issue: 22 Feb 2019

1. Product Information

- Product Name : Flamma® 648 Amine
- Catalog Number : PWE1215
- Packing Unit : 1 mg / 5 mg / 25 mg
- Appearance : Blue Solid
- Storage Conditions : Protect from Light at 4 °C

2. Additional Information

- Fluorophore Label : Flamma® 648
- Reactive Group : Amine
- Reactive Toward : Carboxyl group
- Molecular Formula : $C_{37}H_{50}N_4O_7S_2$
- Molecular Weight : 726.95 g/mol
- Excitation $_{Max}$: 648 ± 3 nm
- Emission $_{Max}$: 663 ± 4 nm
- Extinction Coefficient : $\geq 227,000$ /cm·M

3. Description

Flamma® Fluors 648 Amine is inactive form of far-red fluorescent dye induced from cyanine structure and used to generate a stable fluorescence signal in bioimaging. The primary amine is attached to Flamma 648 through a spacer. The maxima of Ex/Em values are at 648/663 nm, similar to that of Alexa 647, Cy5 and DyLight 650. Flamma 648 might be excited using 593 or 633 nm laser lines and displays excellent optical property. Flamma® Fluors 648 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.