BioActs Co., Ltd.
9, Cheongneung-daero 595beon-gil, Namdong-gu, Incheon 21666, Korea
Tel: +82-32-818-9100, Fax: +82-32-818-8206
www.bioacts.com • technical@bioacts.com

Product Data Sheet

Date of Issue: 7 Oct 2021

1. Product Information

- Product Name : Flamma® 749 Amine
- Catalog Number : PWE1301
- Packing Unit : 1 mg / 5 mg / 25 mg
- Appearance : Green Solid
- Storage Conditions : Protect from Light at 4 ℃

2. Additional Information

- Fluorophore Label : Flamma® 749
- Reactive Group : Amine
- Reactive Toward : Carboxyl group
- Molecular Formula : $C_{39}H_{52}N_4O_7S_2$
- Molecular Weight : 752.98 g/mol
- Excitation $_{Max}$: 749 ± 3 nm
- Emission $_{Max}$: 774 ± 4 nm
- Extinction Coefficient : ≥ 200,000 /cm·M

3. Description

Flamma® Fluors 749 Amine is inactive form of near infrared (NIR) fluorescent dye induced from cyanine structure and used to generate a stable fluorescence signal in bioimaging. The primary amine is attached to Flamma 749 through a spacer. The maxima of Ex/Em values are at 749/774 nm, similar to that of Alexa 750, Cy7, IRDye 750 and DyLight 755. Flamma 749 might be excited using 750 nm laser line or dye-pumped laser excitation and the emission occurs at biological tissue permeable NIR region. Flamma® Fluors 749 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.