

Product Data Sheet

Date of Issue: 22 Feb 2019

1. Product Information

- Product Name : Flamma® 552 Carboxylic acid
- Catalog Number : PWC1101
- Packing Unit : 1 mg / 5 mg / 25 mg
- Appearance : Red Solid
- Storage Conditions : Protect from Light at 4 °C

2. Additional Information

- Fluorophore Label : Flamma® 552
- Reactive Group : Carboxylic acid
- Reactive Toward : Primary amine on proteins and ligands, amine-modified oligonucleotides
- Molecular Formula : $C_{34}H_{44}N_2O_8S_2$
- Molecular Weight : 672 g/mol
- Excitation $_{Max}$: 550 ± 3 nm
- Emission $_{Max}$: 565 ± 4 nm
- Extinction Coefficient : $\geq 136,000$ /cm·M

3. Description

Flamma® Fluors 552 Carboxylic acid is inactive form of bright yellow fluorescent dye induced from cyanine structure and used to generate a stable fluorescence signal in bioimaging. Flamma 552 fluorophore is attached with the octanoic acid. The maxima of Ex/Em values are at 550/565 nm, similar to that of Alexa 555, DyLight 549, ATTO 550 and Cy3. Flamma 552 might be excited using 532, 543, 546 or 555 nm laser lines and displays excellent optical property. Flamma 552 acid might be coupled with primary amine at small molecules or on biomolecules by standard amide bond coupling conditions, or it might be converted to a reactive amine form by using standard chemical techniques. Flamma® Fluors 552 acid can be utilized as a reference standard for dye-conjugates.