

Product Data Sheet

Date of Issue: 7 Oct 2021

1. Product Information

- Product Name : Flamma® 496 Amine
- Catalog Number : CWE1001
- Packing Unit : 1 mg / 5 mg / 25 mg
- Appearance : Yellow to Orange Solid
- Storage Conditions : Protect from Light at 4 °C

2. Additional Information

- Fluorophore Label : Flamma® 496
- Reactive Group : Amine
- Reactive Toward : Carboxyl group
- Molecular Formula : $C_{23}H_{18}F_2N_2O_6$
- Molecular Weight : 454.4 g/mol
- Excitation $_{Max}$: 496 ± 3 nm
- Emission $_{Max}$: 520 ± 4 nm
- Extinction Coefficient : $\geq 45,000$ /cm·M

3. Description

Flamma® Fluors 496 Amine is inactive form of bright green fluorescent dye induced from fluorescein structure and used to generate a stable fluorescence signal in bioimaging. The primary amine is attached to Flamma 496 through a spacer. The maxima of Ex/Em values are at 496/520 nm, similar to that of Fluorescein. Flamma 496 might be excited using 488 nm laser line and displays excellent optical property. Flamma® Fluors 496 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.