

Product Data Sheet

Date of Issue: 22 Feb 2019

1. Product Information

- Product Name : Flamma® 496 Hydrazide
- Catalog Number : CWH1001
- Packing Unit : 1 mg / 5 mg / 25 mg
- Appearance : Yellow to Orange Solid
- Storage Conditions : Protect from Light at -20 °C

2. Additional Information

- Fluorophore Label : Flamma® 496
- Reactive Group : Hydrazide
- Reactive Toward : Aldehyde, Ketone
- Molecular Formula : $C_{21}H_{14}F_2N_2O_6$
- Molecular Weight : 428.34 g/mol
- Excitation $_{Max}$: 496 ± 3 nm
- Emission $_{Max}$: 520 ± 4 nm
- Extinction Coefficient : $\geq 43,000$ /cm·M

3. Description

Flamma® Fluors 496 Hydrazide is a reactive form of bright green dye induced from fluorescein structure and used to generate a stable fluorescence signal in bioimaging. The maxima of Ex/Em values are at 496/516 nm, similar to that of Fluorescein. Flamma 496 might be excited using 488 nm laser line and displays excellent optical property. Hydrazides can label aldehyde and ketone through reductive amination reaction to form an imine linkage. The main labeling target for hydrazides is free reducing sugars on biomolecules, and prior to conjugation, primary and secondary alcohols on polysaccharide and glycoprotein are usually oxidized to aldehyde and ketone. We offer Flamma Fluors 496 hydrazide for labeling of polysaccharide, glycoprotein and other biomolecules bearing aldehyde or ketone.