

Product Data Sheet

Date of Issue: 7 Oct 2021

1. Product Information

- Product Name : Flamma® 496 Azide
- Catalog Number : CWZ1001
- 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 : Azide
- Reactive Toward : Aldehyde, Ketone
- Molecular Formula : $C_{24}H_{18}F_2N_4O_6$
- Molecular Weight : 494.4 g/mol
- Excitation_{Max} : 496 ± 3 nm
- Emission_{Max} : 520 ± 4 nm
- Extinction Coefficient : $\geq 50,000$ /cm·M

3. Description

Flamma® Fluors 496 Azide is a copper (I)-catalyzed azide-alkyne cycloaddition (CuAAC) reagent of bright green dye induced from fluorescein structure and used to generate a stable fluorescence signal in bioimaging. The azide reactive group is connected to the dye through an amino propyl linkage. The maxima of Ex/Em values are at 496/520 nm, similar to that of Alexa 488 and Fluorescein. Flamma 496 might be excited using 488 nm laser line and displays excellent optical property. Flamma 496 azide couples with an alkyne to form 1,4-disubstituted 1,2,3-triazole inside of living systems without interfering native biochemical processes. Prior to perform CuAAC, the alkyne functionality should be introduced onto counterpart biomolecule by means of chemical or genetic modification. We offer Flamma Fluors 496 Azide as a click chemistry reagent dye for cellular imaging and nucleotide functionalization.