

Product Data Sheet

Date of Issue: 26 Nov 2019

1. Product Information

- Product Name : Flamma® 496 ADIBO
- Catalog Number : DWC1001
- 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 : ADIBO
- Reactive Toward : Azide
- Molecular Weight : 672.63 g/mol
- Excitation_{Max} : 496 ± 3 nm
- Emission_{Max} : 520 ± 4 nm
- Extinction Coefficient : ≥ 26,000 /cm·M

3. Description

Flamma® Fluors 496 ADIBO is a strain-promoted azide-alkyne cycloaddition (SPAAC) reagent 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 496/520 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 ADIBO couples with an azide to form 1,4-disubstituted 1,2,3-triazole inside of living systems without using any coupling reagents or catalyst nor interfering native biochemical processes. Prior to perform SPAAC, the azide functionality should be introduced onto counterpart biomolecule by means of chemical or genetic modification. We offer Flamma Fluors 496 ADIBO as a click chemistry reagent dye for cellular imaging and nucleotide functionalization.