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Product Data Sheet

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1. Product Information

- Product Name : Flamma® 774 Alkyne
- Catalog Number : PWK1603
- Packing Unit : 1mg / 5mg / 25 mg
- Appearance : Green Solid
- Storage Conditions : Protect from Light at -20 ℃

2. Additional Information

- Fluorophore Label : Flamma® 774
- Reactive Group : Alkyne
- Reactive Toward : Azide
- Molecular Weight : 967.13 g/mol
- Excitation $_{Max}$: 774 ± 3 nm
- Emission $_{Max}$: 800 ± 4 nm
- Extinction Coefficient : ≥ 182,000 /cm·M

3. Description

Flamma® Fluors 774 Alkyne is a copper (I)-catalyzed azide-alkyne cycloaddition (CuAAC) reagent of near infrared (NIR) fluorescent dye and used to generate a stable fluorescence signal in bioimaging. The maxima of Ex/Em values are at 774/800 nm, similar to that of IRDye 800, Cy7.5 and CF770. Flamma 774 might be excited using 750 or 785 nm laser line or dye-pumped laser excitation and the emission occurs at NIR region. Flamma 774 alkyne couples with an azide to form 1,4-disubstituted 1,2,3-triazole inside of living systems without interfering native biochemical processes. Prior to perform CuAAC, the azide functionality should be introduced onto counterpart biomolecule by means of chemical or genetic modification. We offer Flamma Fluors 774 alkyne as a click chemistry reagent dye for cellular imaging and nucleotide functionalization.