

## **Product Data Sheet**

Date of Issue: 7 Oct 2021

## 1. Product Information

- Product Name : Flamma® 496 Alkyne
- Catalog Number : CWK1001
- 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 :	Alkyne
• Reactive Toward :	Azide
• Molecular Formula :	$C_{24}H_{15}F_2NO_6$
• Molecular Weight :	451.38 g/mol
• Excitation <sub>Max</sub> :	$496\pm3\ nm$
• Emission <sub>Max</sub> :	$520\pm4~nm$
• Extinction Coefficient :	$\geq$ 63,000 /cm·M

## 3. Description

Flamma<sup>®</sup> Fluors 496 Alkyne 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 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 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 496 alkyne as a click chemistry reagent dye for cellular imaging and nucleotide functionalization.

WARNING: Intended for research use only. This product is not intended or approved for human, diagnostics, therapeutic or veterinary use. Use of this product for human or animal testing is extremely hazardous and may result in disease, severe injury, or death. MATERIAL SAFETY DATA: Review the complete Material Safety Data Sheet before use Material Safety Data Sheet (MSDS), Certificate of Analysis (COA) and Technical Information are available at http://www.bioacts.com or upon request.