

Product Data Sheet

Date of Issue: 7 Oct 2021

1. Product Information

- Product Name : Flamma® 749 ADIBO
- Catalog Number : DWC1031
- Packing Unit : 1 mg / 5 mg / 25 mg
- Appearance : Green Solid
- Storage Conditions : Protect from Light at -20 °C

2. Additional Information

Fluorophore Label :	Flamma® 749
• Reactive Group :	ADIBO
• Reactive Toward :	Azide
• Molecular Weight :	969.22 g/mol
• Excitation _{Max} :	$749 \pm 3 \text{ nm}$
• Emission _{Max} :	$774 \pm 4 \text{ nm}$
• Extinction Coefficient :	\geq 145,000 /cm·M

3. Description

Flamma® Fluors 774 ADIBO is a copper (I)-catalyzed azide-alkyne cycloaddition (CuAAC ADIBO is a strain-promoted azide-alkyne cycloaddition (SPAAC)) 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 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 774 ADIBO 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.