

Product Data Sheet

Date of Issue: 7 Oct 2021

1. Product Information

- Product Name : Flamma® 675 ADIBO
- Catalog Number : DWC1051
- Packing Unit : 1 mg / 5 mg / 25 mg
- Appearance : blue Solid
- Storage Conditions : Protect from Light at -20 °C

2. Additional Information

- Fluorophore Label : Flamma® 675
- Reactive Group : ADIBO
- Reactive Toward : Azide
- Molecular Weight : 1203.42 g/mol
- Excitation_{Max} : 675 ± 3 nm
- Emission_{Max} : 691 ± 4 nm
- Extinction Coefficient : ≥ 220,000 /cm·M

3. Description

Flamma® Fluors 675 ADIBO is a strain-promoted azide-alkyne cycloaddition (SPAAC) reagent of near infrared (NIR) fluorescent dye induced from benzindocyanine structure and used to generate a stable fluorescence signal in bioimaging. The maxima of Ex/Em values are at 675/691 nm, similar to that of Alexa 680, Cy5.5, IRDye 680LT and DyLight 680. Flamma 675 might be excited using 633 nm laser line and the emission occurs at biological tissue permeable NIR region. Flamma 675 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 675 ADIBO as a click chemistry reagent dye for cellular imaging and nucleotide functionalization.