

# Product Data Sheet

Date of Issue: 26 Nov 2019

## 1. Product Information

- Product Name : Flamma® 552 ADIBO
- Catalog Number : DWC1011
- Packing Unit : 1 mg / 5 mg / 25 mg
- Appearance : Red Solid
- Storage Conditions : Protect from Light at -20 °C

## 2. Additional Information

- Fluorophore Label : Flamma® 552
- Reactive Group : ADIBO
- Reactive Toward : Azide
- Molecular Weight : 931.17 g/mol
- Excitation<sub>Max</sub> : 552 ± 3 nm
- Emission<sub>Max</sub> : 567 ± 4 nm
- Extinction Coefficient : ≥ 118,000 /cm·M

## 3. Description

Flamma® Fluors 552 ADIBO is a strain-promoted azide-alkyne cycloaddition (SPAAC) reagent of bright yellow dye induced from cyanine structure and used to generate a stable fluorescence signal in bioimaging. The maxima of Ex/Em values are at 552/567 nm, similar to that of Alexa 555, DyLight 549, ATTO 550 and Cy3. Flamma 552 might be excited using 532, 543, 546 or 555 nm laser lines and displays excellent optical property. Flamma 552 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 552 ADIBO as a click chemistry reagent dye for cellular imaging and nucleotide functionalization.