

Product Data Sheet

Date of Issue: 26 Feb 2024

1. Product Information

- Product Name : qFlamma® Black01 Alkyne
- Catalog Number : QWK1001
- Packing Unit : 1, 5, 25 mg
- Appearance : Green Solid
- Storage Conditions : Store at -20 °C in a dark

2. Additional Information

- Reactive Group : alkyne
- Molecular Weight : 758.82 g/mol
- Excitation_{Max} : 478

3. Description

qFlamma® Black01 Alkyne is a copper (I)-catalyzed azide-alkyne cycloaddition (CuAAC) reagent of universal dark quencher. Black01 quencher displays high absorption coefficient in a wide spectral range covering from 400 to 800 nm and exhibits no native fluorescence, superb stability and aqueous solubility. Black01 Alkyne couples with an azide to form 1,4-disubstituted 1,2,3-triazole, and prior to perform CuAAC, an azide should be introduced to the probe or counterpart biomolecule by means of chemical or genetic modification. We offer qFlamma® Black01 Alkyne as a click chemistry reagent in designing probes consisting of spectrally paired fluorophore and quencher for multiplexed bio-analysis and nucleic acid hybridization.