

AzoDye-1 PEG10 AlkyneCatalog number: 2415
Unit size: 1 mg**Product Details**

Storage Conditions	Freeze (<-15 °C), Minimize light exposure
Expiration Date	12 months upon receiving

Chemical Properties

Appearance	Solid
Molecular Weight	982.14
Soluble In	DMSO

Applications

AzoDye-1 PEG10 alkyne is an excellent building block for labeling azide-containing molecules. It contains a PEG10 spacer that significantly improve its water solubility compared to AzoDye-1 alkyne (#2414) although both AzoDye-1 alkyne (#2414) and AzoDye-1 PEG10 alkyne (#2415) bear the same extremely hydrophobic BHQ-1 chromophore. AzoDye-1 dyes are nearly non-fluorescent with moderate extinction coefficients. These dark quenchers are most typically used in Molecular Beacon probes in which FRET has minimal contribution to their fluorescence quenching, thus dependence on donor-acceptor spectral overlap is not significant as to other FRET probes such as FRET peptides. AzoDye-1 dyes can quench a variety of fluorophores, in particular, fluorescein derivatives such as FAM, HEX, TET, NED and JOE. This may reflect the AzoDye-1's ability to form stable, non-fluorescent complexes with a fluorophore.