

**BXQ-1 Carboxylic Acid**Catalog number: 2400  
Unit size: 25 mg**Product Details**

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

**Chemical Properties**

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Appearance	Solid
Molecular Weight	504.55
Soluble In	DMSO

**Applications**

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Black Hole Quencher™ dyes (BHQ®) are non-fluorescent dyes mainly used for preparing FRET oligonucleotides (Black Hole Quencher™ and BHQ® are the trademarks of Biosearch). They 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. BHQ dyes can quench a variety of fluorophores, in particular, fluorescein derivatives such as FAM, HEX, TET, NED and JOE. This may reflect the BHQ's ability to form stable, non-fluorescent complexes with a fluorophore. BXQ-1 is chemically equivalent to BHQ®-1.