

BXQ-2 AmineCatalog number: 2426
Unit size: 5 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 | 477.53 |
| Soluble In | DMSO |

Applications

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-2 is chemically equivalent to BHQ®-2. BXQ-2 amine is an excellent building block for labeling carbonyl-containing molecules.