

**BXQ-2 CPG (1000 A)**

Catalog number: 2430

Unit size: 100 mg

**Product Details**

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Storage Conditions Freeze (&lt;math&gt;-15\text{ }^{\circ}\text{C}&lt;/math&gt;), Minimize light exposure

Expiration Date 12 months upon receiving

**Chemical Properties**

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Appearance Solid

Soluble In MeCN

**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-2 is chemically equivalent to BHQ®-2. BXQ-2 CPG is an excellent building block for preparing oligonucleotides through the well-known phosphoramidite chemistry. BXQ dyes are compatible with ammonium hydroxide deprotection.