

BXQ-1 CPG (1000 A)

Catalog number: 2410

Unit size: 100 mg

Product Details

Storage Conditions Freeze (<math>-15\text{ }^{\circ}\text{C}</math>), Minimize light exposure

Expiration Date 12 months upon receiving

Chemical Properties

Appearance Solid

Soluble In MeCN

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-1 is chemically equivalent to BHQ®-1. BXQ-1 CPG is an excellent building block for preparing oligonucleotides through the well-known phosphoramidite chemistry. BXQ dyes are compatible with ammonium hydroxide deprotection.