

DusQ® 1 CPG 500

<http://www.lumiprobe.com/p/bhq-1-cpg>

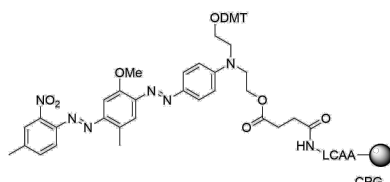
This modified support with a pore size of 500 Å is intended for the synthesis of oligonucleotides of up to 50 bases in length modified with non-fluorescent DusQ 1 quencher at the 3' end.

DusQ 1 dark quencher exhibits the strongest absorption within the range of 480 to 580 nm; its absorption maximum is at 534 nm. It can be used for combined quenching (a combination of static and dynamic quenching) of many fluorophores, including Biosearch Blue™, Marina Blue™, Edans, Bothell Blue, FAM™, JOE™, VIC™, R6G, HEX™, TET™, CAL Fluor™ Gold 540, and Yakima Yellow™. It can be used for the synthesis of hybridization probes such as TaqMan, Molecular Beacon, Scorpion.

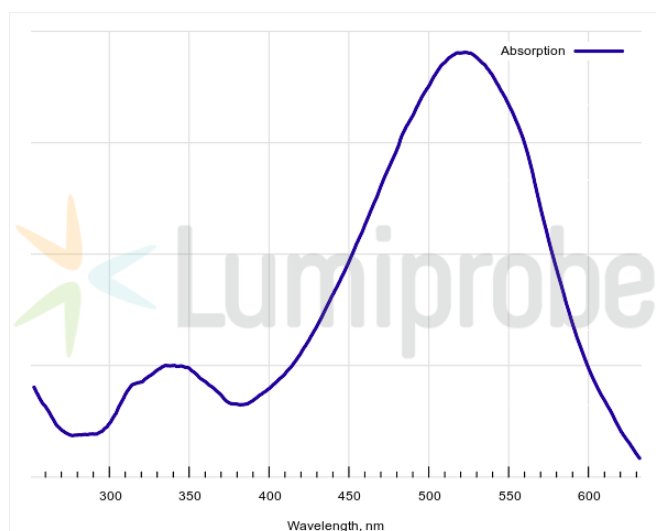
Usage

Coupling: Standard conditions identical to normal nucleobases.

Deprotection: 2 hours at room temperature using concentrated ammonia or 10 min at 65 °C using AMA mixture, concentrated aqueous ammonia/40% methylamine (1:1). Deprotection conditions depend on oligonucleotide composition and nucleobase protecting groups, as well as additional modifications, if present.



Structure of DusQ 1 CPG 500



Absorption spectrum of DusQ 1

General properties

Appearance:	purple beads
Quality control:	NMR ¹ H and HPLC-MS (95%) of bound reagent, loading measurement, functional testing in oligo synthesis.
Storage conditions:	Storage: 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.
Legal statement:	This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.

Spectral properties

Excitation/absorption maximum, nm:	522
ε, L·mol ⁻¹ ·cm ⁻¹ :	27300
CF ₂₆₀ :	0.17

CF₂₈₀: 0.10

Oligo synthesis details

Pore size, Å: 500

Typical loading, umol/g: 70–80