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DusQ 1 CPG 500

http://www.lumiprobe.com/p/dusq-1-cpg

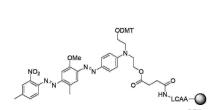
This modified support with a pore size of 500 Å is intended for the synthesis of oligonucleotides of up to 50 bases in length modified with non-fluorescent DusQ 1 quencher at the 3' end.

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.

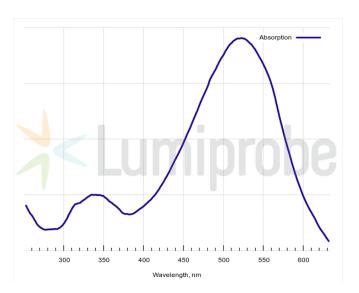
Usage

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 ¹H and HPLC-MS (95%) of bound reagent, loading measurement, functional

testing in oligo synthesis.

Storage conditions: Storage: 24 months after receival at -20°C in the dark. Transportation: at room

temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.

Spectral properties

Excitation/absorption maximum, nm: 522 ϵ , L·mol⁻¹·cm⁻¹: 27300 CF_{260} : 0.17 CF_{280} : 0.10

Oligo synthesis details

Pore size. Å: 500