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DusQ 1 CPG 1000

http://www.lumiprobe.com/p/dusq-1-cpg-1000

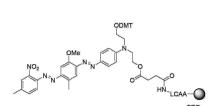
This support with a pore size of 1000 Å is intended for the automated synthesis of oligonucleotides of up to 120 bases in length modified with DusQ1 dark quencher at the 3' end.

Non-fluorescent DusQ1 quencher exhibits the strongest absorption within the range of 480 to 580 nm; its absorption maximum is at 534 nm. It is suitable for quenching (a combination of static and dynamic quenching) of many fluorophores, including Biosearch BlueTM, Marina BlueTM, Edans, Bothell Blue, FAMTM, JOETM, VICTM, R6G, HEXTM, TETTM and Yakima YellowTM. It can be used for the synthesis of hybridization probes such as TagMan, Molecular Beacon, Scorpion.

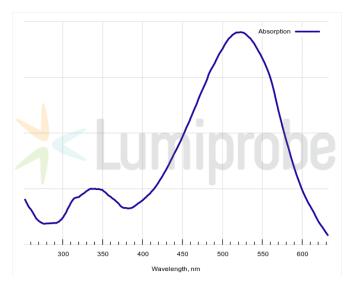
Usage

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 1000



Absorption spectrum of DusQ 1

General properties

Appearance: red 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: 1000