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DusQ® 21 CPG 500

http://www.lumiprobe.com/p/dusq21-cpg-500

DusQ® 21 is a quencher for the dyes in far red region of the spectrum. The dye is a xanthene derivative, unlike DusQ 1 or DusQ 2, that are azo dyes. It has a high extinction coefficient, and provides an outstanding quenching efficiency.

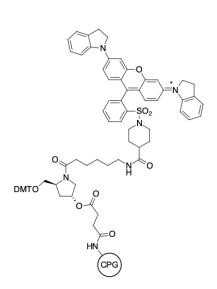
The controlled pore glass solid support allows to synthesize oligonucleotides carrying the dye moiety on 3'-terminus.

We recommend the use of ultramild, phenoxyacetyl protected monomers. As an alternative, post-synthetic labeling using NHS ester of DusQ 21 quencher can be used.

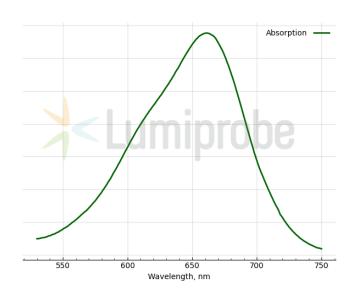
Usage

Coupling: Standard conditions identical to normal nucleobases.

Deprotection: 2 hours at room temperature using concentrated ammonia or potassium carbonate K_2CO_3 (50 mM solution in methanol).



Structure of DusQ 21 CPG 500



Absorption spectrum of DusQ 21

General properties

Appearance: dark blue beads

Quality control:

1 NMR of bound reagent, coupling testing with HPLC-MS

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

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

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: 656 ϵ , L·mol⁻¹·cm⁻¹: 72800

Oligo synthesis details

Pore size, Å: 500
Typical loading, umol/g: 50-80