

DusQ 1 phosphoramidite

<http://cn.lumiprobe.com/p/bhq1-amidite>

DusQ 1 phosphoramidite is a true dark quencher with broad absorption curve which covers the visible spectrum with maximum in green to yellow region. It is used for the synthesis of dual labeled oligonucleotide probes for qPCR bearing 5'-quencher DusQ 1 and other FRET applications for multiplexing assays. Contains a DMT protection of the hydroxymethyl group, which allows oligonucleotide purification on cartridges.

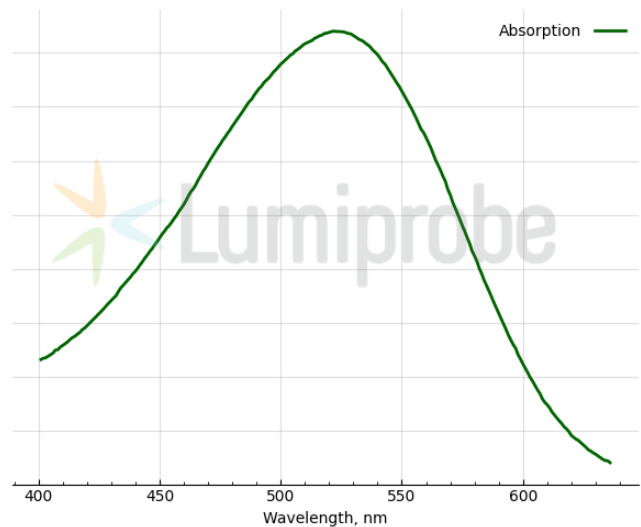
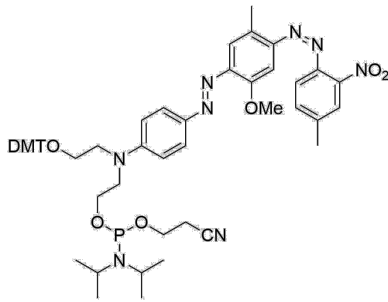
DusQ 1 has a quenching range (QR) 480 - 580 nm to construct efficiently quenched qPCR probes paired with all common reporter dyes such as FAM, TET, JOE, HEX and Cyanine3 with high quenching efficiency, and form completely non-fluorescent complexes.

Usage

Coupling: 6 minutes coupling time recommended.

Deprotection: for 2 h at RT using ammonium hydroxide, or 10 min at 65 °C with AMA (solution of 30% ammonium hydroxide/40% aqueous methylamine 1:1 v/v).

Deprotection time depends on oligonucleotide composition and nucleobase protecting groups, and additional modifications.



外观:

分子量: 995.11

CAS 编号: 374591-94-3

分子式: C₅₅H₆₃N₈O₈P

IUPAC 名称: Phosphoramidous acid, bis(1-methylethyl)-, 2-[[2-[bis(4-methoxyphenyl)phenylmethoxy]ethyl][4-[[2-methoxy-5-methyl-4-[(4-methyl-2-nitrophenyl)azo]phenyl]azo]phenyl]amino]ethyl 2-cyanoethyl ester (9CI)

溶解度:

质量控制:

储存条件:

激发/吸收极大值, 纳米: 522

ε, 摩尔吸光系数, cm⁻¹: 27300

稀释剂:

偶联条件:

切割条件:

解保护条件: