

## DusQ 2 phosphoramidite

<http://cn.lumiprobe.com/p/bhq2-amidite>

DusQ 2 phosphoramidite is suitable for the synthesis of oligonucleotides labeled with DusQ 2 quencher at the 5'- and 3'-ends, as well as in the middle of the sequence. This phosphoramidite has DMT protection, which allows purification of the synthesized 5'-labeled oligonucleotide on cartridges.

This phosphoramidite is commonly used for the synthesis of doubly labeled probes for quantitative PCR with DusQ 2 quencher at the 5'-end. DusQ 2 is a fluorescence quencher with maximum absorption in the range of 560-670 nm and is suitable for efficient quenching of fluorophores emitting in this range through FRET mechanism. It is also used in hybridization probes based on static and mixed quenching.

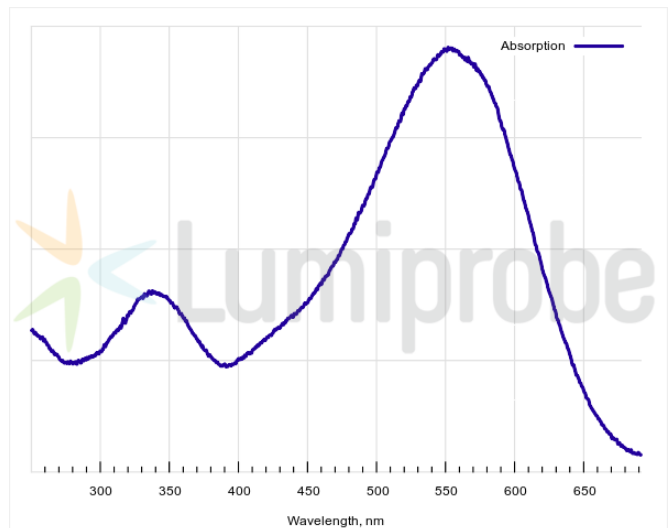
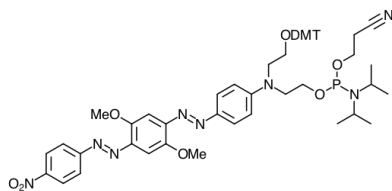
Since the quenching efficiency of DusQ 2 is minimally dependent on the spectral overlap between the fluorophore and the quencher, it is suitable for a wide range of fluorophores, including those with emission in the red and far-red ranges. The list of fluorophores for use with DusQ 2 includes, but is not limited to, Cyanine3, TAMRA, ROX, Cyanine3.5, Cyanine5, Cyanine5.5.

## 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: 997.08

CAS 编号: 374591-98-7

分子式:  $C_{54}H_{61}N_8O_9P$

质量控制:

储存条件:

激发/吸收极大值, 纳米: 552

CF<sub>260</sub>: 0.31

CF<sub>280</sub>: 0.26

稀释剂:

偶联条件:

切割条件:

解保护条件: