

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.

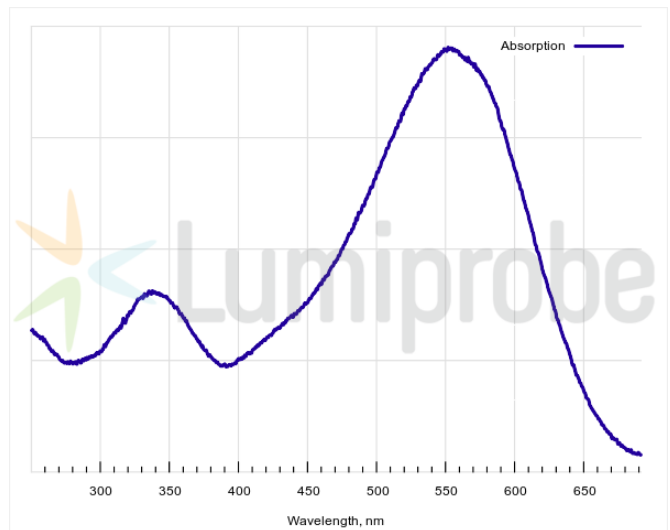
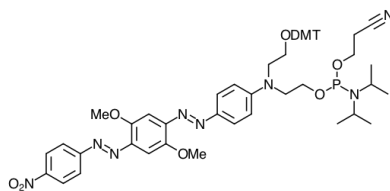
Since the quenching efficiency of DusQ 2 is minimally dependent on the spectral overlap between the fluorophore and the quencher, it is suitable for a wide range of fluorophores, including those with emission in the red and far-red ranges. The list of fluorophores for use with DusQ 2 includes, but is 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: 深色固体

分子 997.08

量:

CAS 374591-98-7

编号:

分子 $C_{54}H_{61}N_8O_9P$

式:

质量 NMR 1H , ^{31}P , HPLC-MS (95%)

控制:

储存

条件:

法律 本产品仅供研究目的提供和销售。 本产品并未经过食品、药品、医疗器械、化妆品等领域的安全性和效力测试, 且未经明示或暗示授权用于其他任何用途, 包括但不限于体外诊断、人类或动物用途, 以及商业用途。

激发/ 552

吸收
极大
值，
纳米：

CF_{260} : 0.31

CF_{280} : 0.26

稀释
剂：

偶联
条件：

切割
条件：

解保
护条
件：