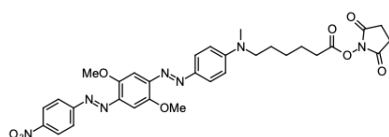


DusQ 2 NHS ester

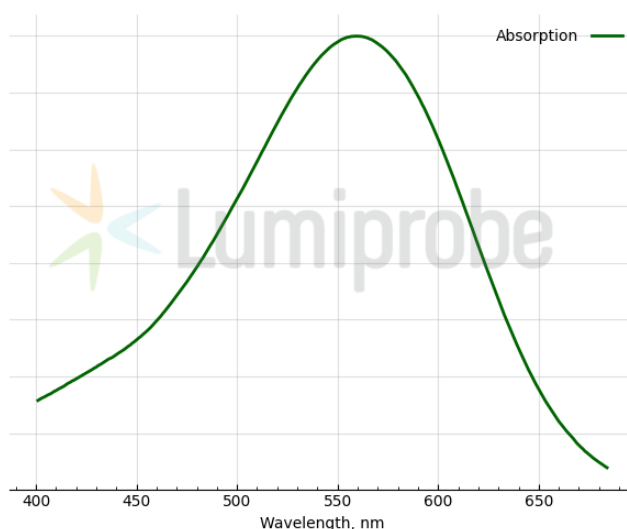
<http://www.lumiprobe.com/p/dusq2-nhs-ester>

DusQ 2 succinimidyl ester is a derivative with an amine reactive group for labeling with the amine-modified oligonucleotides, amine-containing proteins and other molecules. DusQ 2 is a nonfluorescent quencher with an absorbance maximum of 552 nm. It is useful as an acceptor in fluorescence resonance energy transfer (FRET) applications, nucleic acid assays in conjunction with yellow and orange to red emitting dyes such as [Cyanine3](#), [Cyanine5](#), [ROX](#), [Texas Red](#), [AF 555](#), [AF 594](#), [AF 647](#).

NHS ester function allows to conjugate the quencher to various biomolecules of interest, and also to prepare oligonucleotides with DusQ 2.



Structure of DusQ 2 NHS ester



Absorption spectrum of DusQ 2

General properties

| | |
|---------------------|---|
| Appearance: | dark colored solid |
| Molecular weight: | 631.64 |
| Molecular formula: | C ₃₁ H ₃₃ N ₇ O ₈ |
| Solubility: | good in chlorinated organic solvents, DMSO, DMF |
| Quality control: | NMR ¹ H, HPLC-MS (95%) |
| Storage conditions: | Storage: 12 months after receipt 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: 552