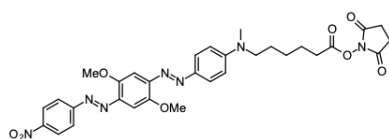


## DusQ® 2 NHS ester

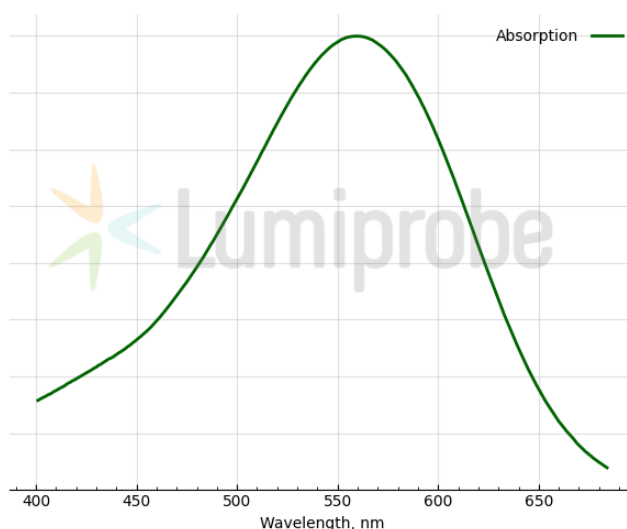
<http://www.lumiprobe.com/p/bhq2-nhs-ester>

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 <sub>31</sub> H <sub>33</sub> N <sub>7</sub> O <sub>8</sub>  |
| Solubility:         | good in chlorinated organic solvents, DMSO, DMF  |
| Quality control:    | NMR <sup>1</sup> 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.  |
| 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: 552