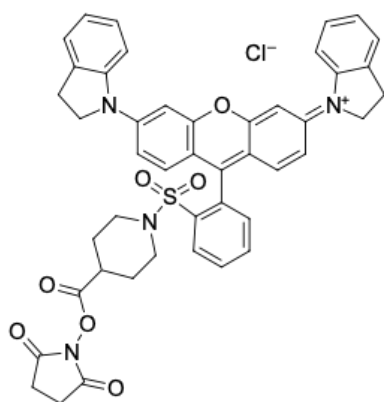


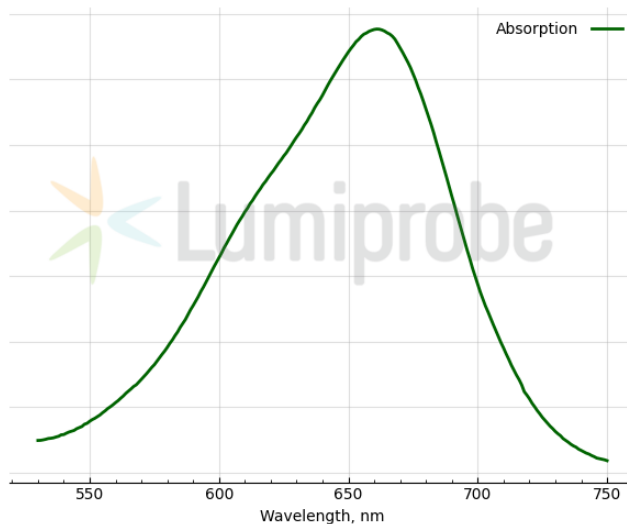
## DusQ® 21 NHS ester

<http://www.lumiprobe.com/p/qsy-21-quencher-nhs-ester>

DusQ® 21 is a dark quencher used as an acceptor in FRET applications, it has absorption maximum 656 nm, and can be used in multiplex assays due to the lack of secondary fluorescence. It is a quencher of choice for pairing with fluorescent dyes that emit in the red and near-infrared part of the range. DusQ 21 NHS ester derivative is used for labeling with the primary amines of amine-containing molecules. It can be used for quenching of many fluorophores, including [Cyanine5](#), [Cyanine5.5](#), [AF 647](#).



**Structure of DusQ 21 NHS ester**



**Absorption spectrum of DusQ 21**

### General properties

Appearance:	dark purple powder
Molecular weight:	815.35
CAS number:	304014-13-9
Molecular formula:	C <sub>45</sub> H <sub>39</sub> ClN <sub>4</sub> O <sub>7</sub> S
Quality control:	NMR <sup>1</sup> H and HPLC-MS (95+%)
Storage conditions:	12 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. 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:	656
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	72800