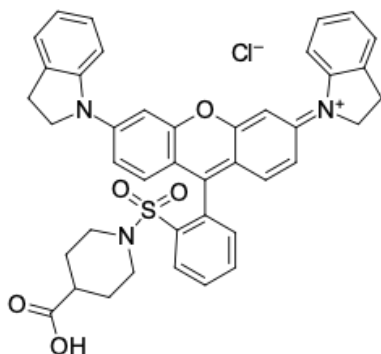


## DusQ® 21 carboxylic acid

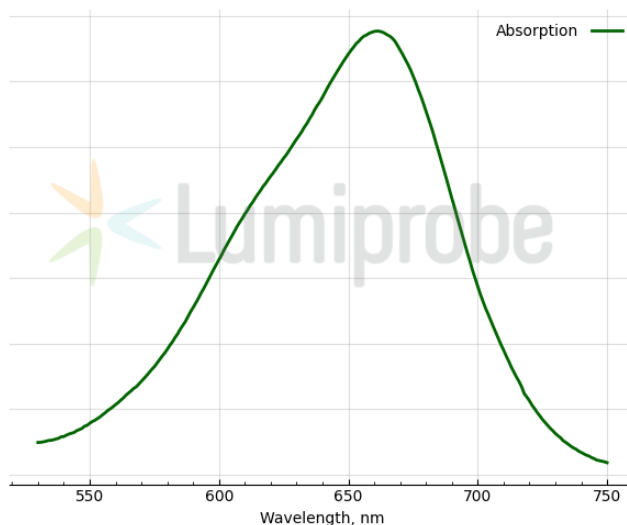
<http://www.lumiprobe.com/p/qsy-21-quencher-carboxylic-acid>

DusQ® 21 is a fluorescence quencher. DusQ 21 possesses broad absorption in far red and NIR range, and can quench fluorescence of dyes that emit in this region. This is a carboxylic acid derivative.

DusQ 21 has intense absorption maximum at 656 nm, making it useful as an acceptor in fluorescence resonance energy transfer (FRET) applications. It is a common quencher for [Cyanine5](#), [Cyanine5.5](#), [AF 647](#), or other spectrally similar fluorescent dyes.



**Structure of DusQ 21 carboxylic acid**



**Absorption spectrum of DusQ 21**

### General properties

Appearance:	dark purple powder
Molecular weight:	718.28
Molecular formula:	C <sub>41</sub> H <sub>36</sub> ClN <sub>3</sub> O <sub>5</sub> S
Quality control:	NMR <sup>1</sup> H and HPLC-MS (95+%)
Storage conditions:	24 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