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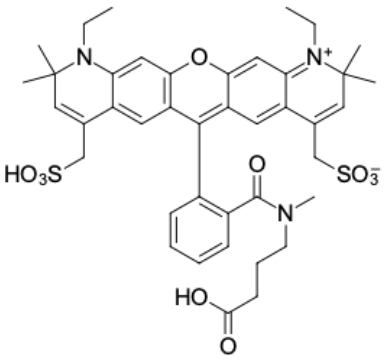
ATT 594 carboxylic acid

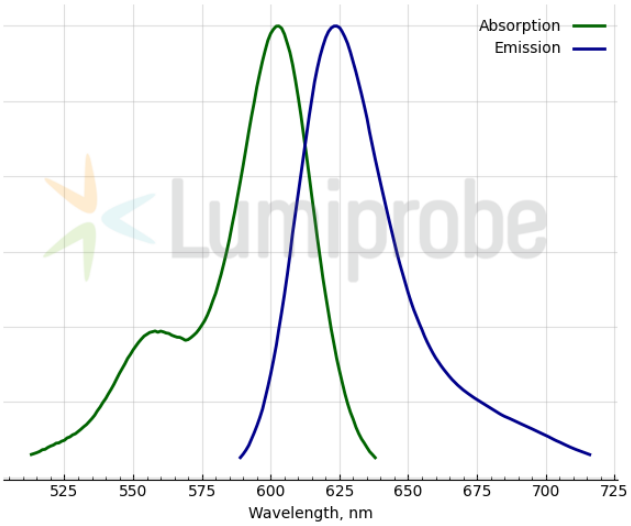
http://www.lumiprobe.com/p/atto-594-carboxylic-acid

ATT 594 is a red-fluorescent rhodamine dye with high fluorescence quantum yield, strong thermal and photostability, and excellent water solubility. The dye is well-suited for high-resolution microscopy and single-molecule detection applications.

ATT 594 carboxylic acid is a non-reactive form of ATT 594 dye that can be used as a reference standard in experiments involving ATT 594 dye conjugates. Besides, the carboxylic group can react with hydrazines, hydroxylamines, and amines using carbodiimides such as EDAC.



Structure of ATT 594 carboxylic acid



Absorption and emission spectra of ATT 594

General properties

Appearance:	dark crystals
Molecular weight:	805.96
Molecular formula:	$C_{41}H_{49}N_3O_{10}S_2$
Solubility:	water, DMF, DMSO
Quality control:	NMR ^1H and HPLC-MS (95+%)
Storage conditions:	24 months after receival 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:	603
ε, $L \cdot mol^{-1} \cdot cm^{-1}$:	125000
Emission maximum, nm:	624
Fluorescence quantum yield:	0.63
CF_{260}:	0.380
CF_{280}:	0.645