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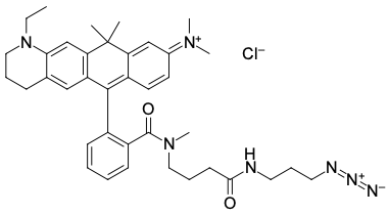
ATT 633 azide

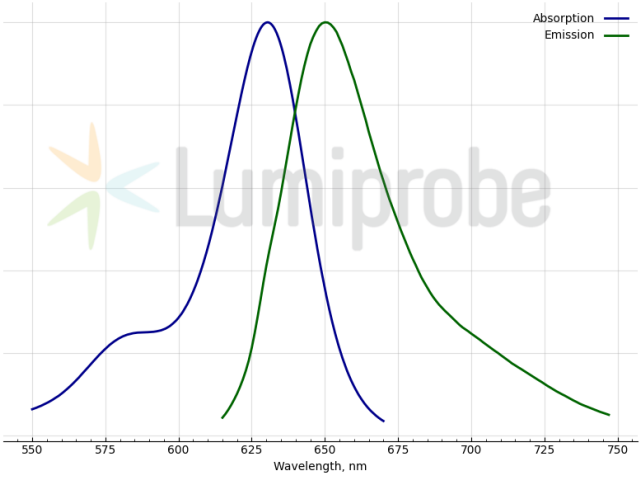
http://www.lumiprobe.com/p/atto-633-azide

ATT 633 azide is a fluorescently labeled azide that reacts with alkynyl derivatives of biomolecules (terminal alkynes and cyclooctynes) via click reactions to form stable adducts.

ATT 633 is a far-red fluorescent 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 633 is a cationic dye. After coupling to a substrate, the dye carries a net electrical charge of +1.



Structure of ATT 633 azide



Absorption and emission spectra of ATT 633

General properties

Appearance:	blue-purple crystals
Molecular weight:	670.28
Molecular formula:	$C_{38}H_{48}ClN_7O_2$
Solubility:	good in 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:	630
ε, $L \cdot mol^{-1} \cdot cm^{-1}$:	168000
Emission maximum, nm:	650
Fluorescence quantum yield:	0.65
CF_{260}:	0.313
CF_{280}:	0.091