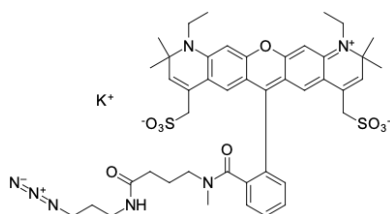


ATT 594 azide

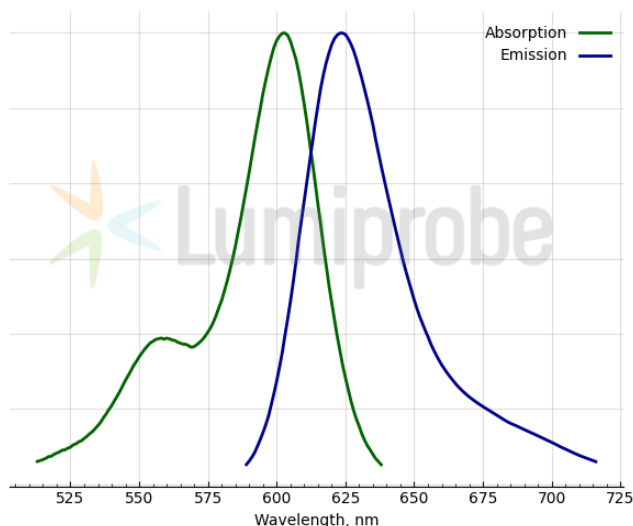
<http://www.lumiprobe.com/p/atto-594-azide>

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



Structure of ATT 594 azide



Absorption and emission spectra of ATT 594

General properties

Appearance:	dark-blue crystals
Molecular weight:	926.17
Molecular formula:	$C_{44}H_{52}KN_7O_9S_2$
Solubility:	good in water, DMF, DMSO
Quality control:	NMR 1H and HPLC-MS (95+%)
Storage conditions:	24 months after receipt at $-20^\circ C$ in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.
Legal statement:	Product is offered and sold for research purposes only. Product is not tested for safety and efficacy in food, drug, medical device, cosmetic, no express or implied authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, for humans or animals or for commercial purposes.

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