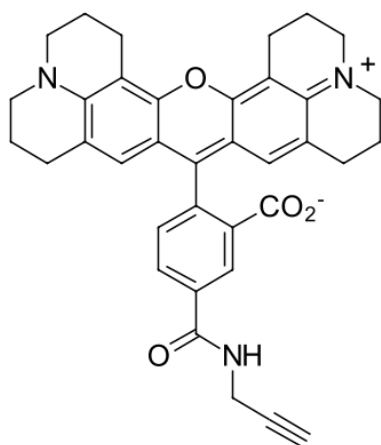


## ROX alkyne, 5-isomer

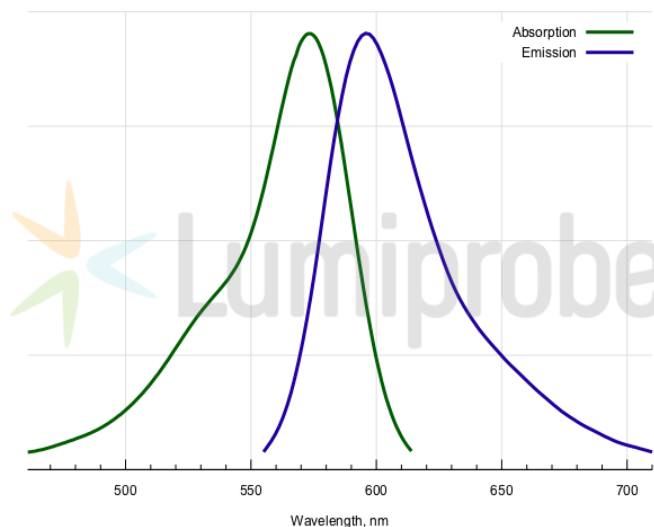
<http://www.lumiprobe.com/p/rox-alkyne-5>

ROX alkyne is an alkyne derivative of the bright red-emitting dye ROX (Rhodamine X, Rhodamine 101). Due to its quantum yield approaching unity, ROX is a popular dye for qPCR and microscopy applications. It is used for fluorescent labeling of azide-containing biomolecules via copper-catalyzed click reaction. This product is a pure 5-isomer of ROX.

ROX is prone to oxidation; therefore, its derivatives should preferably be stored in an inert atmosphere.



**Structure of 5-ROX alkyne**



**Absorption and emission spectra of ROX**

### General properties

Appearance:	purple solid
Mass spec M+ increment:	571.3
Molecular weight:	571.66
CAS number:	2264016-88-6
Molecular formula:	C <sub>36</sub> H <sub>33</sub> N <sub>3</sub> O <sub>4</sub>
Solubility:	good in DMSO, DMF, methanol, ethanol
Quality control:	NMR <sup>1</sup> H, HPLC-MS (95%)
Storage conditions:	Storage: 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. 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:	570
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	93000
Emission maximum, nm:	591
Fluorescence quantum yield:	1.00
CF <sub>260</sub> :	0.62
CF <sub>280</sub> :	0.49