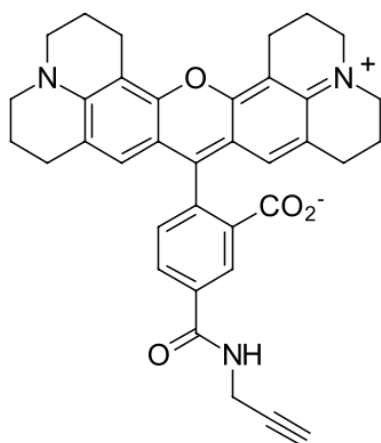


ROX alkyne, 5-isomer

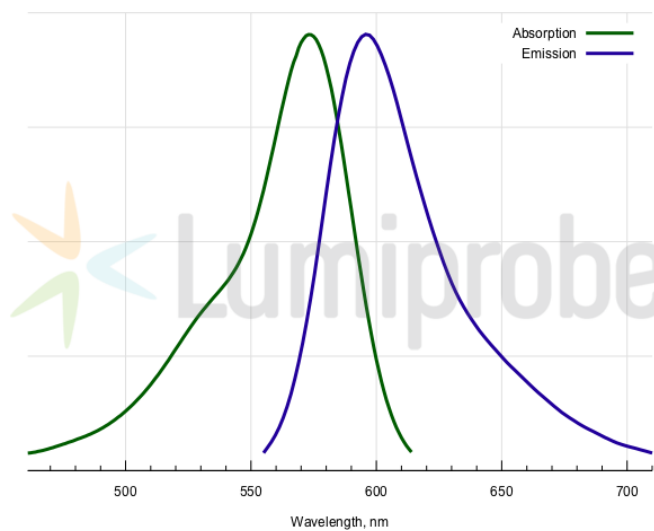
With its quantum yield approaching unity, ROX has become a popular dye for qPCR and microscopy. This bright fluorophore is available as an alkyne for copper-catalyzed Click chemistry reaction.

This is a pure 5-isomer of ROX.

ROX is prone to oxidation. Therefore, its derivatives should be preferably stored in 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 ₃₆ H ₃₃ N ₃ O ₄
Solubility:	good in DMSO, DMF, methanol, ethanol
Quality control:	NMR ¹ 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.
TN VED Code:	3204190000

Spectral properties

Excitation maximum, nm:	570
ϵ , L·mol ⁻¹ ·cm ⁻¹ :	93000
Emission maximum, nm:	591
Fluorescence quantum yield:	1.00