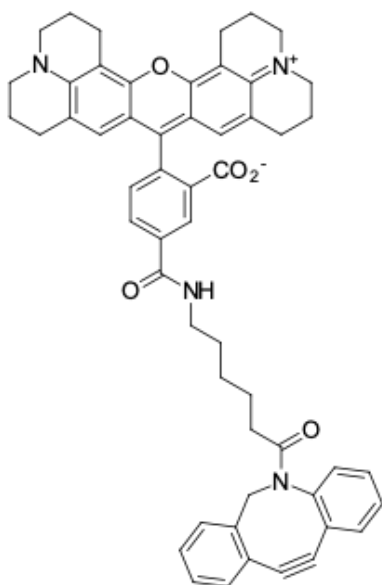


ROX DBCO, 5-isomer

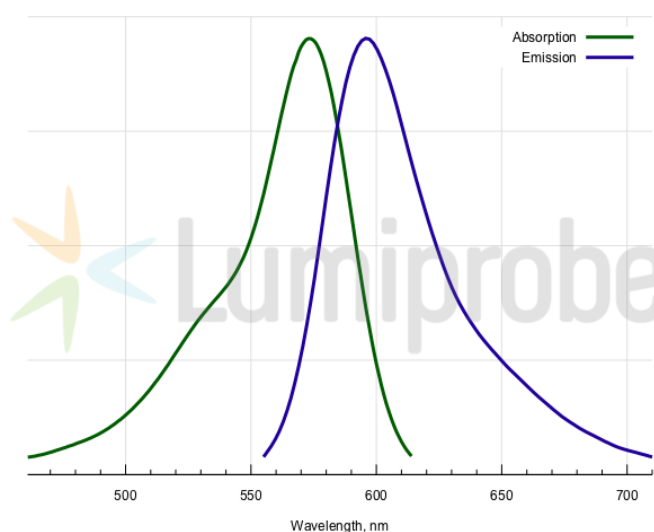
ROX DBCO is a conjugate of bright rhodamine dye rhodamine X, and DBCO (dibenzocyclooctyne) - a reactive group that contains a strained alkyne bond for the conjugation with azides.

This reagent is useful for the labeling of various azides with ROX dye.

This derivative contains pure 5-isomer of ROX.



Structure of 5-ROX DBCO



Absorption and emission spectra of ROX

General properties

Appearance:	red solid
Mass spec M+ increment:	834.4
Molecular weight:	835.00
Molecular formula:	C ₅₄ H ₅₀ N ₄ O ₅
Solubility:	good in DMF, DMSO
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.

Spectral properties

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