

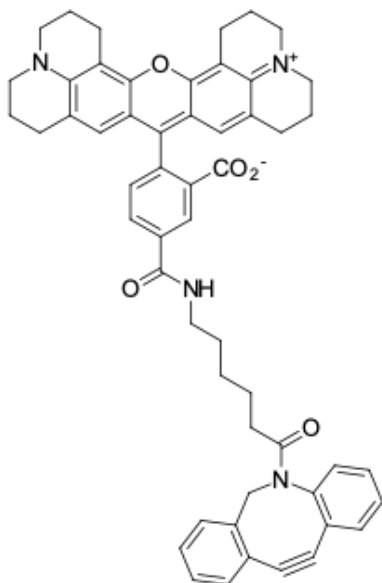
## ROX DBCO, 5-isomer

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

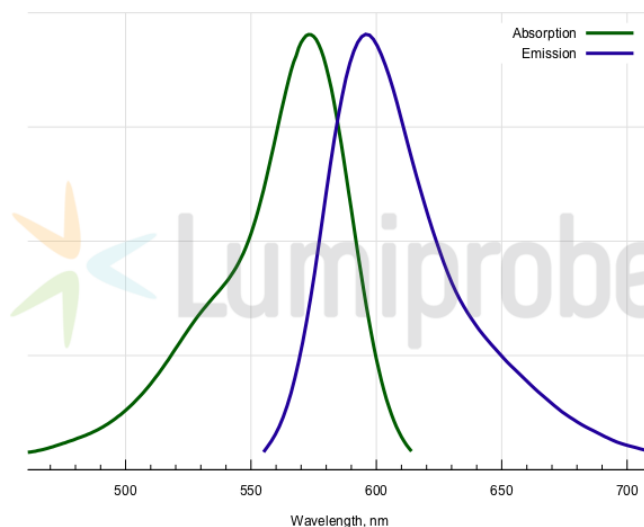
ROX DBCO is a conjugate of bright rhodamine dye rhodamine X, and DBCO (dibenzocyclooctyne) - a reactive group that contains a strained alkyne bond for the conjugation with azides.

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 <sub>54</sub> H <sub>50</sub> N <sub>4</sub> O <sub>5</sub>
Solubility:	good in DMF, DMSO
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.

### Spectral properties

Excitation/absorption maximum, nm:	570
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	93000
Emission maximum, nm:	595
Fluorescence quantum yield:	1.00