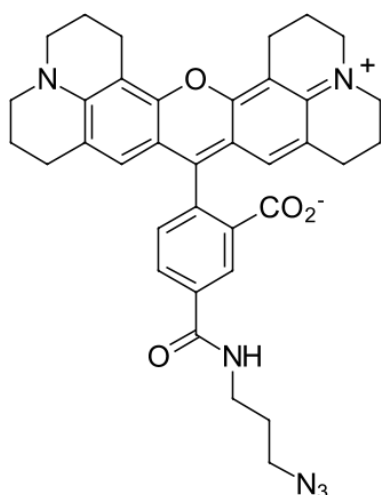


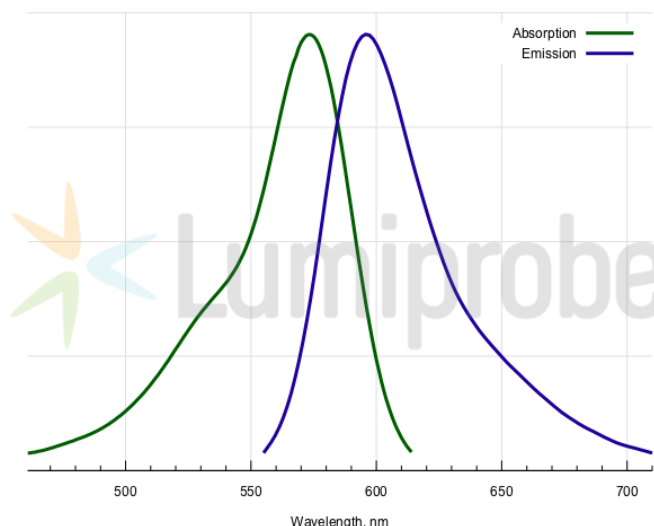
## ROX azide, 5-isomer

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

ROX azide is an alkyne-reactive derivative of ROX (Rhodamine X, Rhodamine 101) dye. ROX is a red-emitting fluorophore possessing high brightness and fluorescence quantum yield. This reagent is a pure 5-isomer. It is used for labeling alkyne and cycloalkyne-containing biomolecules via copper-catalyzed and copper-free click chemistry reactions.



Structure of ROX azide, 5-isomer



Absorption and emission spectra of ROX dye

### General properties

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appearance:         | dark crimson powder                                                                                                                                                                                                                                                                                                                                                                                                            |
| Molecular weight:   | 616.71                                                                                                                                                                                                                                                                                                                                                                                                                         |
| CAS number:         | 2628213-67-0                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Molecular formula:  | C <sub>36</sub> H <sub>36</sub> N <sub>6</sub> O <sub>4</sub>                                                                                                                                                                                                                                                                                                                                                                  |
| Solubility:         | good in polar organic solvents (DMF, DMSO, alcohols), low in water                                                                                                                                                                                                                                                                                                                                                             |
| 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.                                                                                                                                                                                                                                                                               |
| 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:                | 1.0   |
| CF <sub>260</sub> :                        | 0.62  |
| CF <sub>280</sub> :                        | 0.49  |