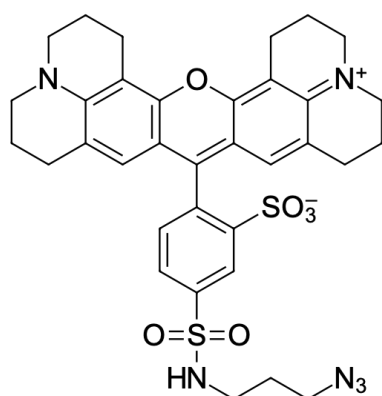


## TR azide, 5-isomer

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

Azide derivative of red fluorescent dye TR (sulforhodamine 101 acid chloride) for click chemistry conjugation with terminal alkynes via a [copper-catalyzed click reaction](#) or strained cyclooctynes via a [copper-free click reaction](#).

TR is a red-fluorescent dye used for cell staining, fluorescence microscopy applications, and cell sorting with fluorescent-activated cell sorting machines. TR is also commonly used in molecular biology, mainly quantitative RT-PCR and cellular assays.



**Structure of TR azide, 5-isomer**

### General properties

|                     |  |
|---------------------|--|
| Appearance:         | black crystals   |
| Molecular weight:   | 688.83   |
| Molecular formula:  | C <sub>34</sub> H <sub>36</sub> N <sub>6</sub> O <sub>6</sub> S <sub>2</sub>   |
| Solubility:         | good in polar organic solvents   |
| Quality control:    | NMR <sup>1</sup> H and HPLC-MS (95+%)  |
| Storage conditions: | 24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. 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:         | 582   |
| ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> : | 98000 |
| Emission maximum, nm:                      | 600   |
| Fluorescence quantum yield:                | 0.79  |