

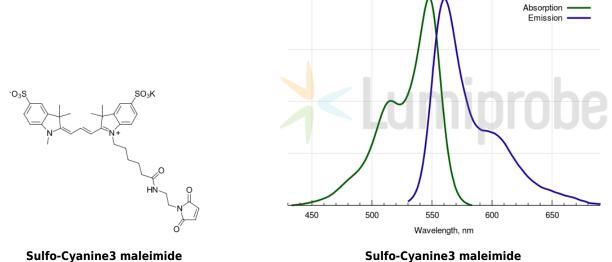
sulfo-Cyanine3 maleimide

http://www.lumiprobe.com/p/sulfo-cy3-maleimide

sulfo-Cyanine3 maleimide is a water-soluble, thiol-reactive dye for labeling. This is an analog of Cy3® maleimide.

This product is recommended for labeling antibodies and other labile proteins in mild, purely aqueous conditions. The dye is water soluble and does not require organic co-solvent.

A non-sulfonated Cyanine3 maleimide is available.



General properties

| Appearance: | red powder |
|---------------------|---|
| Molecular weight: | 776.96 |
| CAS number: | 1656990-68-9 |
| Molecular formula: | $C_{36}H_{41}KN_4O_9S_2$ |
| IUPAC name: | 3H-Indolium, 2-[3-[1-[6-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)ethyl]amino]-6- oxohexyl]-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-1-propen-1-yl]-1,3,3- trimethyl-5-sulfo-, inner salt, potassium salt |
| Solubility: | soluble in water (0.39 M = 30 g/L), DMF, DMSO |
| Quality control: | NMR ¹ H, HPLC-MS (95+%) |
| Storage conditions: | Storage: 24 months after receival 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: | 548 |
|--|--------|
| ε, L·mol ⁻¹ ·cm ⁻¹ : | 162000 |
| Emission maximum, nm: | 563 |
| Fluorescence quantum yield: | 0.1 |
| CF ₂₆₀ : | 0.03 |
| CF ₂₈₀ : | 0.06 |

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