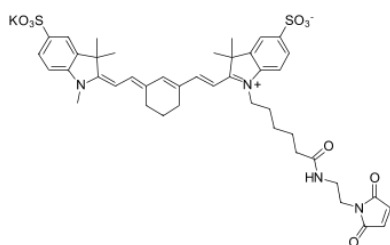


sulfo-Cyanine7 maleimide

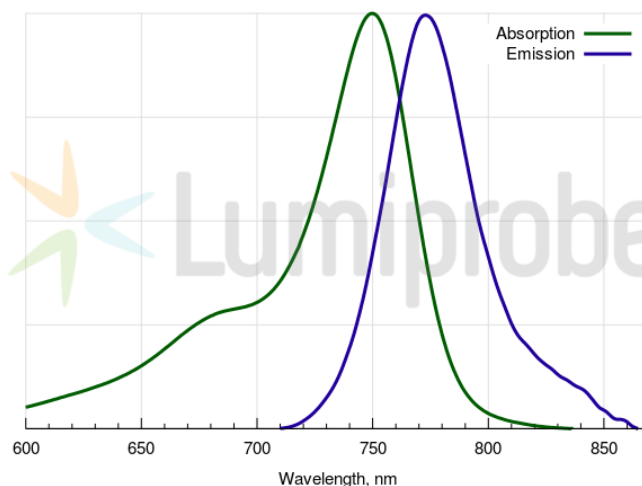
<http://www.lumiprobe.com/p/sulfo-cy7-maleimide>

A reactive dye with a maleimide group for the labeling of thiol groups of proteins and other biomolecules, an analog of Cy7® maleimide.

sulfo-Cyanine7 is a hydrophilic near-infrared fluorophore with a rigidizing ring in its heptamethine chain that improves its photophysical properties. A great dye for various applications, including NIR imaging.



Sulfo-Cyanine7 maleimide structure



Sulfo-Cyanine7 maleimide absorbance and emission spectra

General properties

| | |
|-------------------------|--|
| Appearance: | dark green powder |
| Mass spec M+ increment: | 868.2 |
| Molecular weight: | 869.10 |
| CAS number: | 2183440-60-8 (potassium salt), 2183440-59-5 (inner salt) |
| Molecular formula: | C ₄₄ H ₄₈ KN ₄ O ₆ S ₂ |
| IUPAC name: | 1-[2-(6-{2-[(E)-2-[(E)-3-[(E)-2-[1-Methyl-3,3-dimethyl-5-(oxysulfonyl)-2-indolylidene]ethylidene]-1-cyclohexen-1-yl]ethenyl]-3,3-dimethyl-5-(oxysulfonyl)-3H-indol-1-yl}hexanoylamino)ethyl]-1H-pyrrole-2,5-dione, potassium salt |
| Solubility: | Good in water, DMF, DMSO. Low in non-polar organic solvents. |
| 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. |
| 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: | 750 |
| ε, L·mol ⁻¹ ·cm ⁻¹ : | 240600 |
| Emission maximum, nm: | 773 |
| Fluorescence quantum yield: | 0.24 |
| CF ₂₈₀ : | 0.04 |
| CF ₂₈₅ : | 0.04 |

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