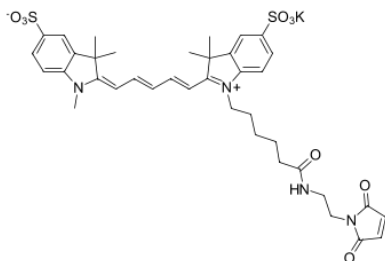


## sulfo-Cyanine5 maleimide

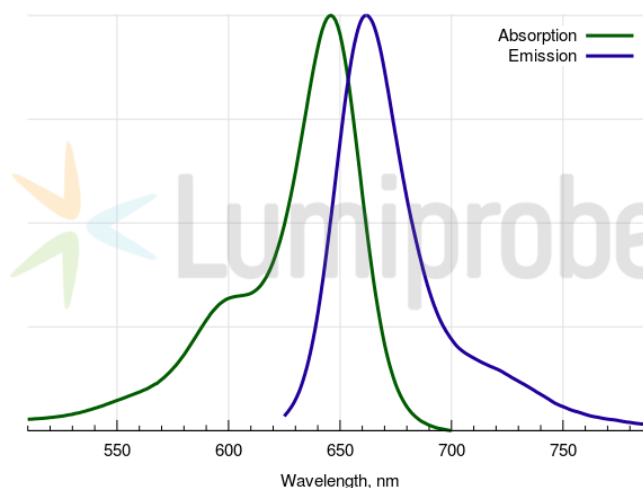
<http://www.lumiprobe.com/p/sulfo-cy5-maleimide>

A water soluble, hydrophilic sulfo-Cyanine5 maleimide (Cy5® maleimide analog). We recommend this product for protein labeling, including labeling of antibodies as a perfect replacement for Cy5® maleimide. Labeled proteins can be easily separated from unreacted dye by gel filtration, spin column purification, dialysis, electrophoresis or chromatography.

An analog without sulfo groups, [Cyanine5 maleimide](#), is also available.



**Sulfo-Cyanine5 maleimide structure**



**Sulfo-Cyanine5 absorbance and emission spectra**

### General properties

|                     |                                                                                                                                                             |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appearance:         | dark blue powder                                                                                                                                            |
| Molecular weight:   | 803.00                                                                                                                                                      |
| CAS number:         | 2242791-82-6                                                                                                                                                |
| Molecular formula:  | C <sub>38</sub> H <sub>43</sub> KN <sub>4</sub> O <sub>9</sub> S <sub>2</sub>                                                                               |
| Solubility:         | soluble in water, DMSO, DMF                                                                                                                                 |
| 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:         | 646    |
| ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> : | 271000 |
| Emission maximum, nm:                      | 662    |
| Fluorescence quantum yield:                | 0.28   |
| CF <sub>260</sub> :                        | 0.04   |
| CF <sub>280</sub> :                        | 0.04   |

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