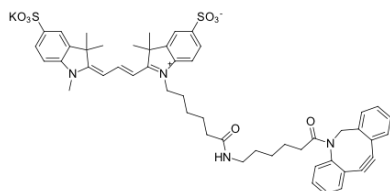


sulfo-Cyanine3 DBCO

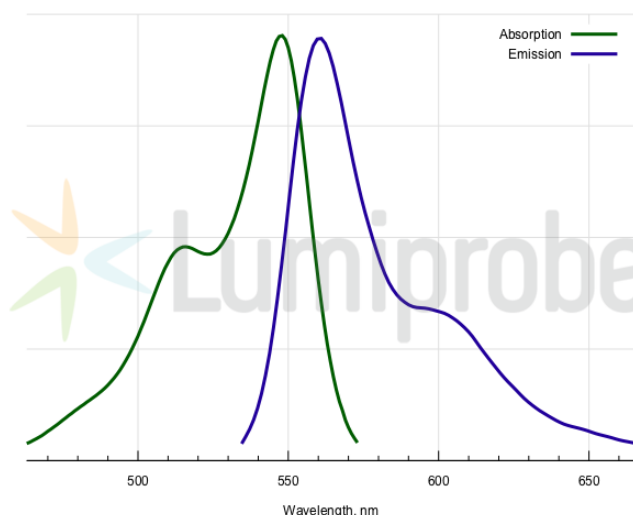
<http://www.lumiprobe.com/p/sulfo-cy3-dbco>

sulfo-Cyanine3 DBCO is a water-soluble fluorescent dye with cycloalkyne group for copper-free click chemistry.

DBCO (dibenzocyclooctyne) is a cyclooctyne with very high reactivity towards azides, still possessing good stability.



Structure of sulfo-Cyanine3 DBCO



Absorption and emission spectra of sulfo-Cyanine3

General properties

| | |
|-------------------------|---|
| Appearance: | red solid |
| Mass spec M+ increment: | 916.4 |
| Molecular weight: | 955.23 |
| Molecular formula: | C ₅₁ H ₅₅ N ₄ KO ₈ S ₂ |
| Solubility: | soluble in water (0.11 M = 11 g/L), DMF, DMSO |
| 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. |

Spectral properties

| | |
|--|--------|
| Excitation/absorption maximum, nm: | 548 |
| ε, L·mol ⁻¹ ·cm ⁻¹ : | 162000 |
| Emission maximum, nm: | 563 |
| Fluorescence quantum yield: | 0.1 |