

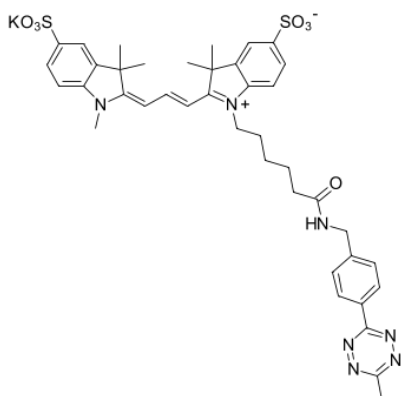
## Sulfo-Cyanine3 tetrazine

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

Tetrazine - *trans*-cyclooctene ligation is among the fastest bioconjugation reactions known to date.

This water soluble sulfo-Cyanine3 derivative contains methyltetrazine moiety for the coupling with *trans*-cyclooctenes. Methyltetrazines possess optimal stability at physiological pH, while maintaining extremely high reactivity towards cyclooctenes.

The fluorophore is bright, photostable, and is also very well visible with naked eye.



**Structure of sulfo-Cy3 tetrazine**

### General properties

Appearance:	red powder
Molecular weight:	838.05
Molecular formula:	C <sub>40</sub> H <sub>44</sub> KN <sub>2</sub> O <sub>5</sub> S <sub>2</sub>
IUPAC name:	Potassium (E)-2-[(E)-3-{3,3-Dimethyl-1-[6-({p-(6-methyl-1,2,4,5-tetrazin-3-yl)phenyl)methyl}amino)-6-oxohexyl]-5-(oxosulfonyl)-3H-indol-2-yl]-2-propenylidene]-1-methyl-3,3-dimethyl-5-indolinesulfonate
Solubility:	soluble in water (0.43 M = 36 g/L), DMF, DMSO
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:	548
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	162000
Emission maximum, nm:	563
Fluorescence quantum yield:	0.1
CF <sub>280</sub> :	0.03
CF <sub>280</sub> :	0.06

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