

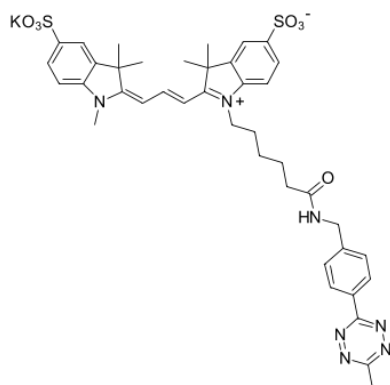
sulfo-Cyanine3 tetrazine

<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 ₄₀ H ₄₄ KN ₇ O ₅ S ₂
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-(oxysulfonyl)-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 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
CF ₂₈₀ :	0.03
CF ₂₈₀ :	0.06

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