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## Product Data Sheet

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Product Name: Cy3 azide

Cat. No.: GC14171

### Chemical Properties

Cas. No.

Chemical Name (2E)-1-[6-(3-azidopropylamino)-6-oxohexyl]-3,3-dimethyl-2-[(E)-3-(1,3,3-trimethyl-5-sulfonatoindol-1-ium-2-yl)prop-2-enylidene]indole-5-sulfonate

SMILES CC1(C2=C(C=CC(=C2)S(=O)(=O)[O-])[N+](=C1C=CC=C3C(C4=C(N3CCCCC(=O)NCCCN=[N+]=[N-])C=CC(=C4)S(=O)(=O)[O-])(C)C)C

Formula C<sub>34</sub>H<sub>45</sub>N<sub>6</sub>NaO<sub>8</sub>S<sub>2</sub> M.Wt 752.88

24 months after receipt at -20°C in the dark.

Solubility very high in water Storage Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light.

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure 

### Background

Sulfo-Cy3 azide is a sulfonated, hydrophilic and highly water soluble dye for Click Chemistry. For labeling of various molecules in aqueous phase for brightness and photostability of fluorophore, sulfo-Cy3 azide is an ideal choice. Click reaction can be carried out in pure water without need to use organic co-solvent. For labeling proteins and even intact biological objects, no organic co-solvent is needed. In life science, the sulfonate groups make the Cy dyes soluble in water and also reduce fluorescence-quenching which can arise from dye-dye interactions.

In vitro, sulfo-Cy3 azide was used for fluorescent microscopy staining. Human U87MG glioblastoma cells that overexpress uPAR were just stained by Cy3-AE105 conjugate [1].

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Reference:

[1] Sun, L. Gai, Y. Anderson, C.J.; Zeng, D. Highly-efficient and versatile fluoruous-tagged Cu (I)-catalyzed azide-alkyne cycloaddition ligand for preparing bioconjugates. Chemical Communications, 2015, 51, 17072-17075.

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