

## Product Data Sheet

Product Name: Sulfo-Cyanine5.5 azide

Cat. No.: GC59218

### Chemical Properties

Cas. No. 2382994-65-0

Formula  $C_{43}H_{45}K_3N_6O_{13}S_4$

M.Wt 1099.41

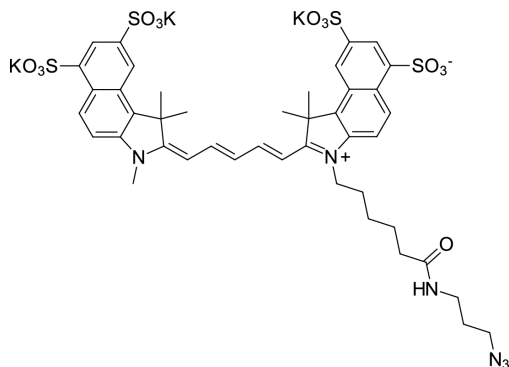
Solubility good in water, DMF, DMSO

Storage 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.

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 sizes: ship with RT, or blue ice upon request.

Structure



### Background

Sulfo-Cyanine5.5 is a water-soluble, hydrophilic fluorophore which possesses emission in the far red area of the spectrum, an analog of Cy5.5®. As other cyanine dyes, sulfo-Cyanine5.5 has an outstanding molar extinction coefficient which gives rise to its bright fluorescence.

The molecule contains four sulfo groups that provide hydrophilicity and negative charge to the fluorophore - this minimizes non-specific binding.

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

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The azide group of sulfo-Cyanine5.5 azide can be conjugated with terminal alkynes in the presence of copper(I) catalyst, or with cycloalkynes in copper free strain promoted reaction.

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