

Product Data Sheet

Product Name: Sulfo-Cyanine7.5 azide

Cat. No.: GC59222

Chemical Properties

Cas. No.

Formula $C_{48}H_{51}N_6K_3O_{13}S_4$

M.Wt 1165.51

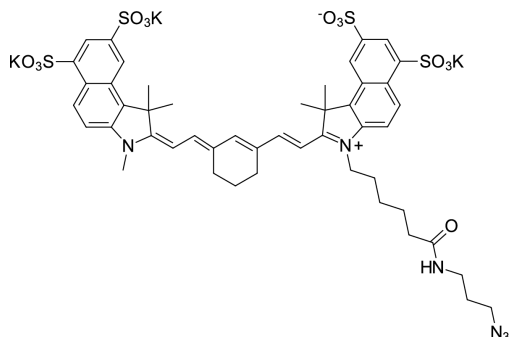
Solubility good in water, DMSO, DMF

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-Cyanine7.5 is a heptamethyne cyanine dye for the near infrared region of the spectrum, which is very hydrophilic, and water soluble. The fluorophore resembles ICG (indocyanine green) that has a long history of in vivo use, and is even approved for human angiography. However, compared to ICG, sulfo-Cyanine7.5 has a significantly improved fluorescence quantum yield due to the rugged polymethine chain reinforced with trimethylene bridge.

Sulfo-Cyanine7.5 is available as a number of reactive derivatives. This azide can be used for the easy labeling of various biomolecules by copper-catalyzed or copper free Click chemistry.

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

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