

Product Data Sheet

Product Name: Sulfo-Cyanine7 NHS ester

Cat. No.: GC59188

Chemical Properties

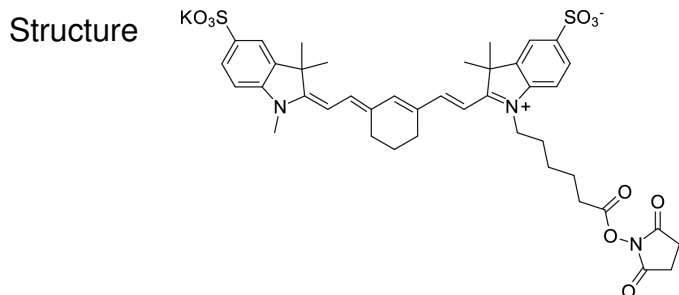
Cas. No. 1603861-95-5 (potassium salt); 1604244-45-2 (inner salt)

Formula $C_{41}H_{46}N_3KO_{10}S_2$ M.Wt 844.05

Solubility good in water, DMF, DMSO Storage Store at -20°C , protect from 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.



Background

Water soluble near infrared dye sulfo-Cyanine7, an amine-reactive succinimide ester.

Sulfo-Cyanine7 is an improved analog of Cy7® fluorophore with quantum yield improved by 20%, and higher photostability. This fluorescent dye is especially useful for NIR imaging.

Near infrared fluorescent imaging takes advantage of transparency of biological tissues at particular range of wavelengths. The method is non-destructive, and allows to monitor distribution of various labeled molecules in live organisms.

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

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Sulfo-Cyanine7 NHS ester reagent allows to prepare sulfo-Cyanine7-labeled biomolecules, such as proteins, with ease. Dye labeled molecules can be subsequently used for various research and drug design related experiments.

This reagent has high water solubility, and is especially useful for the labeling of delicate proteins, and proteins prone to denaturation. Non-sulfonated [Cyanine7 NHS ester](#) soluble in organic phase is also available.

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