

Product Data Sheet

Product Name: Cyanine7 NHS ester

Cat. No.: GC59159

Chemical Properties

Cas. No. 2408482-09-5

Formula $C_{41}H_{48}N_3BF_4O_4$ M.Wt 733.64

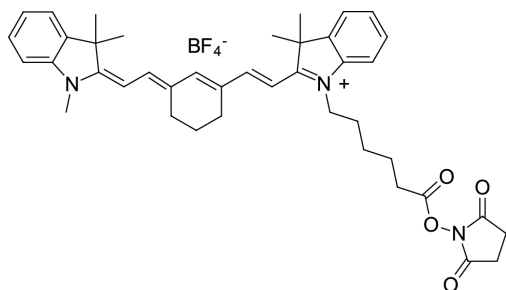
Solubility soluble in organic solvents (DMSO, DMF, dichloromethane), low solubility in water

Storage Storage: 12 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

Amine reactive Cyanine7, near infrared fluorescent dye, an improved analog of Cy7®.

NIR fluorophores can be used to take advantage of near infrared window of biological tissues - increased transparency of tissues in this spectral region allows to carry out in vivo imaging.

This reagent can be utilized to produce Cyanine7-labeled biomolecules for subsequent use in various in vivo research, and drug design related experiments.

The structure of Cyanine7 features rigidized design of central polymethyne chain. This molecular

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reinforcement allows to increase quantum yield by 20% compared with parent structure, increasing fluorescence brightness.

This reagent **requires organic co-solvent** for the labeling (please see Recommended Protocols section below). [Water-soluble Cyanine7 NHS ester](#) is also available, and recommended for protein NIR labeling.

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