

Product Data Sheet

Product Name: Cy7 azide (non-sulfonated)

Cat. No.: GC10791

Chemical Properties

Cas. No.

Chemical Name N-(3-azidopropyl)-6-[(2E)-3,3-dimethyl-2-[(2E)-2-[3-[(E)-2-(1,3,3-trimethylindol-1-ium-2-yl)ethenyl]cyclohex-2-en-1-ylidene]ethylidene]indol-1-yl]hexanamide

SMILES CC1(C2=CC=CC=C2[N+]) (=C1C=CC3=CC(=CC=C4C(C5=CC=CC=C5N4CCCCC(=O)NCCCN=[N+]=[N-])(C)C)CCC3)C

Formula C₄₀H₅₁ClN₆O M.Wt 667.33

Solubility soluble in organic solvents (DMSO, DMF, dichloromethane), low solubility in water 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 size: ship with RT, or blue ice upon request.

Structure

Background

Cy7 azide is a labeling reagent that ready for the use in Click Chemistry labeling. This labeling dye is a near-infrared dye which has low aqueous solubility. For biomolecule labeling, the labeling reagent has low aqueous solubility, using of organic co-solvent to dissolve this molecules is necessary for efficient reaction. First, Cyanine dye should be dissolved in organic solvent and then added to a solution of biomolecule in appropriate aqueous buffer. This product can be used for the incorporation of Cy7 azide into various biomolecules and post-synthetic modification of oligonucleotides is also available.

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

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PEG-b-PPLG-Cy7 was conjugated by Cy7 azid and the polymer of PEG-b-PPLG. In blank micelles, it was used to probe the association of unimers [1].

Reference:

[1] Morton, S. W.; Zhao, X.; Quadir, M.A.; Hammond, P.T. FRET-enabled biological characterization of polymeric micelles. *Biomaterials*, 2014, 35(11), 3489-3496.

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