Product Data Sheet

Product Name: Cy7.5 azide (non-sulfonated)
Cat. No.: GC10286

Chemical Properties

Cas. No.			
Chemical Name	N-(3-azidopropyl)-6-[(2E)-1,1-dimethyl-2-[(2E)-2-[3-[(E)-2-(1,1,3-trimethylbenzo[e]indol-3-ium-2-yl)ethenyl]cyclohex-2-en-1-ylidene]ethylidene]benzo[e]indol-3-yl]hexanamide		
SMILES	CC1(C(=[N+](C2=C1C3=CC=CC=C3C=C2)C)C=CC4=CC(=CC=C5C(C6=C(N5CCCCCC(=O)NCCCN=[N+]=[N-])C=CC7=CC=CC=C76)(C)C)CCC4)C		
Formula	$C_{48}H_{55}ClN_6O$	M.Wt	767.44
Solubility	soluble in organic solvents (DMSO, DMF, dichloromethane), low solubility in water	Storage	24 months after receival 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 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	Cy7.5 azide (non-sulfonated)		

Background

Cy7.5 azide a NIR fluorescence dye that ready for the use in Click Chemistry labeling with long-wave infrared fluorescence. For other fluorescent applications, especially requiring low fluorescent background, this labeling reagent was also popular used. As generic Click Chemistry labeling protocol, azide is available as DMSO solution. For biomolecule labeling, the labeling reagent has low aqueous solubility, using of organic co-solvent to dissolve this molecular 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.

Cy7.5 azide a sulfonated dye with absorption peaks at 773 and 808 nm, can be the optimal fluorescent probe that should have separate absorption spectra. The changes in the absorption and scattering properties of the tissue are negligible in the range of 750 to 850 nm [1].

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Reference:
[1] Osnat Harbater,Israel Gannot. Fluorescent probes concentration estimation in vitro and ex vivo as a model for early detection of Alzheimer’s disease.Jornal of biomedical optics. 2014.19(12).

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