Product Data Sheet

Product Name: Cy3.5 azide (non-sulfonated)
Cat. No.: GC12923

Chemical Properties

Cas. No.			
Chemical Name	3-(6-((3-azidopropyl)amino)-6-oxohexyl)-2-((1E,3E)-3-(3-butyl-1,1-dimethyl-1H-benzo[e]indol-2(3H)-ylidene)prop-1-en-1-yl)-1,1-dimethyl-1H-benzo[e]indol-3-ium		
SMILES	CC1(C)C2=C3C(C=CC=C3)=CC=C2[N+](CCCCCC(NCCCN=[N+]=[N-])=O)=C1/C=C/C=C4C(C)(C)C5=C(C=CC=C6)C6=CC=C5N\4CCCC		
Formula	$C_{44}H_{53}ClN_6O$	M.Wt	717.38
Solubility	≥ 71.7mg/mL in DMSO, ≥ 44.2 mg/mL in EtOH with ultrasonic	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	Cy3.5 azide (non-sulfonated)		

Background

Cy3.5 azide is a solid material dye ready for the use in Click Chemistry reaction. Most derivatives of non-sulfonated cyanines have low aqueous solubility except for hydrochlorides of hydrazides and amines. For biomolecule labeling, 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.

Cy3.5 azide could easily interfere with a radical polymerisation process as it contains a variety of double bonds. The Cy-3 modified initiator was then used to grow the modified

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PMPC-PDPA directly from the dye [1].

Reference:
[1] Gaitzsch, J. ; Delahaye, M.; Poma, A.; Du Prez, F.; Battaglia, G. Comparison of metal free polymer-dye conjugation strategies in protic solvents. Polymer Chemistry, 2016, 7(17), 3046–3055.

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