Data Sheet (Cat.No.T74988)

TargetMol®
A DRUG SCREENING EXPERT

DIBA-Cy5

Chemical Properties

CAS No. :

Formula: C69H89N11O12S3

Molecular Weight: 1360.71

Appearance: no data available

Storage: keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	DIBA-Cy5, a fluorescent DIBA antagonist, consists of DIBA-alkyne and Cyanine5 fluorophores (Cy5) linked by a polyethylene glycol (PEG) chain. It functions as a fluorescent ligand for probe attachment via click chemistry, exhibiting high binding affinity to type-2 mAChR (M2R) with a dissociation constant (Kd) of 1.80 nM. Notably, DIBA-Cy5 effectively stains M2R receptors in the sinoatrial node of mouse hearts [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.7349 mL	3.6746 mL	7.3491 mL
5 mM	0.147 mL	0.7349 mL	1.4698 mL
10 mM	0.0735 mL	0.3675 mL	0.7349 mL
50 mM	0.0147 mL	0.0735 mL	0.147 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

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