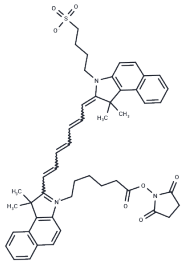
Data Sheet (Cat.No.T39096)

TargetMol

ICG-OSu

Chemical Properties



CAS No. : 1622335-40-3

Formula: C49H53N3O7S

Molecular Weight: 828.04

Storage: Keep away from direct sunlight
Store at -20°C
Actual storage temperature shall be subject to the COA.

Biological Description

Description	ICG-OSu, also known as ICG NHS ester, is a near-infrared fluorescent dye with amine-reactive functionality that enables efficient covalent conjugation to biomolecules, ICG-OSu is widely utilized for the development of in vivo imaging probes, supporting applications in optical imaging, biodistribution studies, and real-time visualization of biological processes.
Targets(IC50)	Others
In vitro	ICG-OSu functions as an amine-reactive NIR fluorescent probe that specifically targets primary amines (-NH2) on proteins and antibodies [1].

Solubility Information

Solubility	DMSO: 40 mg/mL (48.31 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2077 mL	6.0384 mL	12.0767 mL
5 mM	0.2415 mL	1.2077 mL	2.4153 mL
10 mM	0.1208 mL	0.6038 mL	1.2077 mL
50 mM	0.0242 mL	0.1208 mL	0.2415 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Zhou Y, et al. A Novel Near-Infrared Fluorescent Probe TMTP1-PEG4-ICG for in Vivo Tumor Imaging. Bioconjug Chem. 2018;29(12):4119-4126.

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