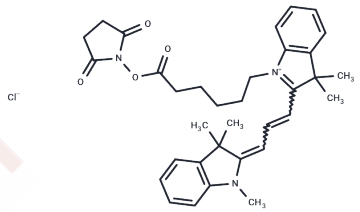
Data Sheet (Cat.No.T18946)

TargetMol

Cyanine3 NHS ester chloride

Chemical Properties



CAS No. : 1032678-38-8

Formula: C34H40ClN3O4

Molecular Weight: 590.15

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

Biological Description

Description	Cyanine3 NHS Ester Chloride is an amine-reactive orange-red fluorescent dye and the NHS ester derivative of Cyanine3, supplied as a chloride salt. Its N-hydroxysuccinimide (NHS) ester reacts efficiently with primary amines on proteins, antibodies, or other biomolecules under neutral to slightly basic conditions, forming stable amide bonds. This dye is widely used for cellular labeling, flow cytometry, and biomolecular staining studies.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 90.00 mg/mL (152.50 mM),Sonication is recommended. H2O: < 1 mg/mL (insoluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6945 mL	8.4724 mL	16.9448 mL
5 mM	0.3389 mL	1.6945 mL	3.389 mL
10 mM	0.1694 mL	0.8472 mL	1.6945 mL
50 mM	0.0339 mL	0.1694 mL	0.3389 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

Shan H, et al. Fluorescent α-Conotoxin [Q1G, ΔR14]LvIB Identifies the Distribution of α7 Nicotinic Acetylcholine Receptor in the Rat Brain. Mar Drugs. 2024 Apr 27;22(5):200.
Shindy, H. A. (2017). Fundamentals in the chemistry of cyanine dyes: A review. Dyes and Pigments, 145, 505-513.