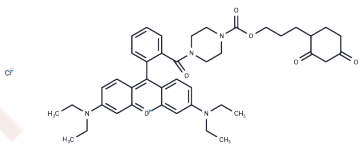
Data Sheet (Cat.No.T36502)

TargetMol

DCP-Rho1

Chemical Properties



CAS No. : 1001575-98-9

Formula: C42H51ClN4O6

Molecular Weight: 743.34

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	DCP-Rho1 is a fluorescent probe for the detection of sulfenic acid-containing proteins. 1,2 It displays excitation/emission maxima of 560/581 nm, respectively, and has been used to visualize protein oxidation sites in situ.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO:PBS (pH 7.2) (1:4): 0.2 mg/mL (0.27 mM),Sonication is recommended. DMF: 30 mg/mL (40.36 mM),Sonication is recommended. Ethanol: 5 mg/mL (6.73 mM),Sonication is recommended. DMSO: 30 mg/mL (40.36 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3453 mL	6.7264 mL	13.4528 mL
5 mM	0.2691 mL	1.3453 mL	2.6906 mL
10 mM	0.1345 mL	0.6726 mL	1.3453 mL
50 mM	0.0269 mL	0.1345 mL	0.2691 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

Klomsiri, C., Rogers, L.C., Soito, L., et al. Endosomal H2O2 production leads to localized cysteine sulfenic acid formation on proteins during lysophosphatidic acid-mediated cell signaling. Free Rad. Biol. Med. 71, 49-60 (2014).
Holmila, R.J., Vance, S.A., Chen, X., et al. Mitochondria-targeted probes for imaging protein sulfenylation. Sci. Rep. 8(1), 6635 (2018).

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