

Product Data Sheet

Product Name: DCP-Rho1

Cat. No.: GC45940

Chemical Properties

Cas. No. 1001575-98-9

SMILES O=C(OCCCC1C(CC(CC1)=O)=O)N2CCN(C(C3=C(C4=C(C=C/5)C(OC6=CC(N(CC)CC)=CC=C64)=CC5=[N+](CC)\CC)C=CC=C3)=O)CC2.[Cl-]

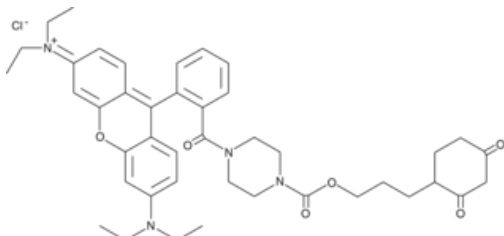
Formula C₄₂H₅₁N₄O₆.Cl M.Wt 743.3

Solubility DMF: 30mg/mL, DMSO: 30mg/mL, DMSO:PBS (pH 7.2) (1:4): 0.2mg/mL, Ethanol: 5mg/mL
Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C 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



Background

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.

[1. 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).] [2. Holmila, R.J., Vance, S.A., Chen, X., et al. Mitochondria-targeted probes for imaging protein sulfenylation. Sci. Rep. 8(1), 6635 (2018).

Caution: Product has not been fully validated for medical applications. For research use only.

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