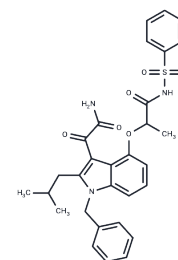


ROC-0929

Chemical Properties

CAS No. : 1048660-43-0
 Formula: C₃₀H₃₁N₃O₆S
 Molecular Weight: 561.65
 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	ROC-0929 (compound 13a) is a potent and selective inhibitor of secreted phospholipases A2 (sPLA2s), targeting hGX with an IC ₅₀ of 80 nM. It efficiently inhibits the phosphorylation of ERK1/2 and p-38. sPLA2s, part of the disulfide-rich, Ca ²⁺ -dependent enzyme family, catalyze the hydrolysis of glycerophospholipids at the sn-2 position, releasing a fatty acid and a lysophospholipid. ROC-0929 is promising for research on inflammation-related diseases.
Targets(IC ₅₀)	Others, Phospholipase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7805 mL	8.9023 mL	17.8047 mL
5 mM	0.3561 mL	1.7805 mL	3.5609 mL
10 mM	0.178 mL	0.8902 mL	1.7805 mL
50 mM	0.0356 mL	0.178 mL	0.3561 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

Oslund RC, et al. Highly specific and broadly potent inhibitors of mammalian secreted phospholipases A2. J Med Chem. 2008;51(15):4708-4714.

Hallstrand TS, et al. Endogenous secreted phospholipase A2 group X regulates cysteinyl leukotrienes synthesis by human eosinophils. J Allergy Clin Immunol. 2016;137(1):268-277.e8.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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