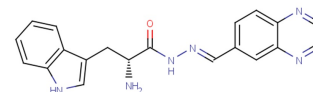


Rhosin

Chemical Properties

CAS No.:	1173671-63-0
Formula:	C ₂₀ H ₁₈ N ₆ O
Molecular Weight:	358.4
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Rhosin is an effective and specific RhoA subfamily Rho GTPases inhibitor, which specifically binds to RhoA to inhibit RhoA-GEF interaction (K _d : ~ 0.4 μ M). Rhosin does not interact with Cdc42 or Rac1, nor the GEF, LARG. Rhosin causes cell apoptosis.
Targets(IC ₅₀)	RhoA: (k _d)0.4 μ M
In vitro	Rhosin induces decreased size and reduced number of mammospheres in MCF7 cells. Rhosin dose-dependently decreases RhoA and p-MLC1 activities of MCF7 cell-derived mammospheres (EC ₅₀ : ~30-50 μ M) [1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.79 mL	13.951 mL	27.902 mL
5 mM	0.558 mL	2.79 mL	5.58 mL
10 mM	0.279 mL	1.395 mL	2.79 mL
50 mM	0.056 mL	0.279 mL	0.558 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Shang X, et al. Rational design of small molecule inhibitors targeting RhoA subfamily Rho GTPases. Chem Biol. 2012 Jun 22;19(6):699-710.
- Shang X, et al. Small-molecule inhibitors targeting G-protein-coupled Rho guanine nucleotide exchange factors. Proc Natl Acad Sci U S A. 2013 Feb 19;110(8):3155-60.

Inhibitors · Natural Compounds · Compound Libraries

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