

Rhosin hydrochloride

Chemical Properties

CAS No. : 1281870-42-5

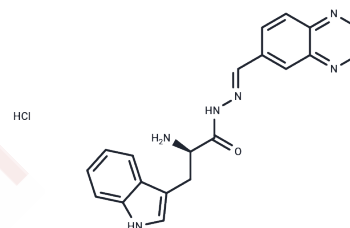
Formula: C₂₀H₂₀Cl₂N₆O

Molecular Weight: 431.318

Appearance: no data available

Storage: store at low temperature

Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Rhosin hydrochloride is a specific inhibitor of the RhoA subfamily Rho GTPases and inhibits the RhoA-GEF interaction. Rhosin hydrochloride can significantly induce cell apoptosis without affecting cell cycle progression. [1]
Targets(IC50)	Apoptosis,Rho,Ras
In vitro	METHODS: To investigate the cytotoxic effects of Rhosin hydrochloride on B16BL6 and 4T1 cells, cell viability was assessed by treating cells with 1-100 μM Rhosin hydrochloride. RESULTS Rhosin hydrochloride at a concentration of 100 μM induced cell death in B16BL6 and 4T1 cells. [1]
In vivo	METHODS: B16BL6 cells and 4T1 cells were injected into the tail vein of syngeneic C57BL/6J mice and Balb/c mice. Mice were treated with 10 or 30 mg/kg of Rhosin hydrochloride daily from day 1 to day 14. RESULTS The number of lung metastatic nodules in B16BL6 and 4T1 cells was reduced in a dose-dependent manner after administration of Rhosin hydrochloride, and Rhosin hydrochloride inhibited the metastasis of 4T1-luc tumor cells to the lung region, which could be confirmed by the reduction of photon flux. [1]

Solubility Information

Solubility	DMSO: 100 mg/mL (253.25 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3185 mL	11.5923 mL	23.1846 mL
5 mM	0.4637 mL	2.3185 mL	4.6369 mL
10 mM	0.2318 mL	1.1592 mL	2.3185 mL
50 mM	0.0464 mL	0.2318 mL	0.4637 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.

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.

Tsubaki M, et al. Rhosin Suppressed Tumor Cell Metastasis through Inhibition of Rho/YAP Pathway and Expression of RHAMM and CXCR4 in Melanoma and Breast Cancer Cells. Biomedicines. 2021 Jan 4;9(1):35.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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