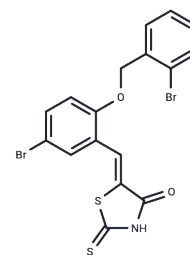


PRL-3 Inhibitor I

Chemical Properties

CAS No. :	893449-38-2
Formula:	C17H11Br2NO2S2
Molecular Weight:	485.21
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	PRL-3 Inhibitor I (BR-1) is a phosphatase of regenerating liver 3 (PRL-3) inhibitor which blocks the migration and invasion of metastatic cancer cells.
Targets(IC50)	Phosphatase
In vitro	PRL-3 inhibitor, in a dose-dependent fashion, blocked the dephosphorylation of DiFMUP by PRL-3 and strongly suppressed the activity of PRL-3 phosphatase in PRL-3 overexpressing DLD-1 colon tumor cells [DLD-1 (PRL-3)]. Also, PRL-3 inhibitor dose-dependently blocked the migration of DLD-1 (PRL-3) cells, however, it did not inhibit the proliferation of DLD-1(PRL-3) cells, suggesting that PRL-3 inhibitor significantly blocked cell immigration and invasion without cytotoxicity

Solubility Information

Solubility	DMSO: 55 mg/mL (113.35 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	2.061 mL	10.3048 mL	20.6096 mL
5 mM	0.4122 mL	2.061 mL	4.1219 mL
10 mM	0.2061 mL	1.0305 mL	2.061 mL
50 mM	0.0412 mL	0.2061 mL	0.4122 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

Min G , Lee S K , Kim H N , et al. Rhodanine-based PRL-3 inhibitors blocked the migration and invasion of metastatic cancer cells[J]. Bioorganic & Medicinal Chemistry Letters, 2013, 23(13):3769-3774.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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