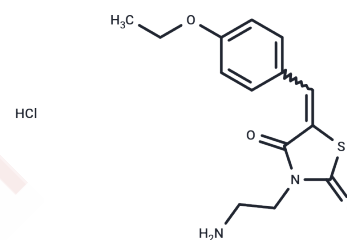


ERK-IN-4

Chemical Properties

CAS No. :	1049738-54-6
Formula:	C ₁₄ H ₁₇ ClN ₂ O ₃ S
Molecular Weight:	328.814
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	ERK-IN-4 is a cell-permeable ERK inhibitor with potential antiproliferative effects for the study of diseases caused by immune dysfunction.
Targets(IC50)	ERK
In vitro	In HeLa, A549, or SUM-159 cells, ERK-IN-4 (10 µM-150 µM, 10 days) completely inhibits cell proliferation[1].

Solubility Information

Solubility	DMSO: 15 mg/mL (45.62 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.08 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0413 mL	15.2064 mL	30.4127 mL
5 mM	0.6083 mL	3.0413 mL	6.0825 mL
10 mM	0.3041 mL	1.5206 mL	3.0413 mL
50 mM	0.0608 mL	0.3041 mL	0.6083 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

Chad N Hancock, et al. Identification of novel extracellular signal-regulated kinase docking domain inhibitors. J Med Chem. 2005 Jul 14;48(14):4586-95.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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