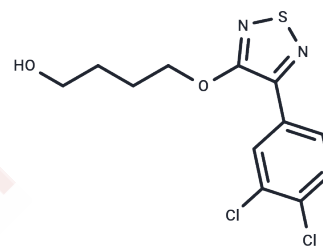


EMT inhibitor-1

Chemical Properties

CAS No. :	1638526-21-2
Formula:	C ₁₂ H ₁₂ Cl ₂ N ₂ O ₂ S
Molecular Weight:	319.21
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	EMT inhibitor-1 is a compound that inhibits Hippo and Wnt signaling pathways, as well as TGF- macrophages (TGF-), exhibiting antitumor activity.
Targets(IC50)	Hippo pathway,TGF-beta/Smad,Wnt/beta-catenin
In vitro	EMT inhibitor-1 (C19) inhibiting cancer cell migration, proliferation, and resistance to doxorubicin in vitro.EMT inhibitor-1 (C19) (0-10μM; 24 hours) is an inhibitor of Hippo, TGF-β, and Wnt signaling pathways with antitumor activities[1].
In vivo	EMT inhibitor-1 (C19) (intraperitoneal injection; 5-20 mg/kg) demonstrates significant antitumor activity in a mouse tumor model. Mechanistically, it induces GSK3-β-mediated degradation of the Hippo transducer TAZ through activation of the Hippo kinases Mst/Lats and the tumor suppressor kinase AMPK, which are upstream of the degradation complex. C19 is dissolved in the vehicle solution (100 μL of DMEM containing 5% dimethyl sulfoxide) [1].

Solubility Information

Solubility	DMSO: 250 mg/mL (783.18 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: 3.3 mg/mL (10.34 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	3.1327 mL	15.6637 mL	31.3273 mL
5 mM	0.6265 mL	3.1327 mL	6.2655 mL
10 mM	0.3133 mL	1.5664 mL	3.1327 mL
50 mM	0.0627 mL	0.3133 mL	0.6265 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

Basu D, et al. Identification, mechanism of action, and antitumor activity of a small molecule inhibitor of hippo, TGF- β , and Wnt signaling pathways. Mol Cancer Ther. 2014 Jun;13(6):1457-67.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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