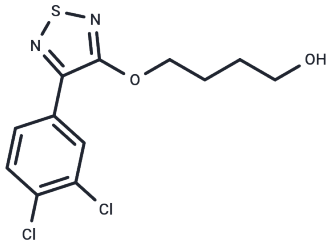
Data Sheet (Cat.No.T11190)

TargetMol
YOUR TARGET MOLECULES

EMT inhibitor-1

Chemical Properties



CAS No. : 1638526-21-2

Formula: C12H12Cl2N2O2S

Molecular Weight: 319.21

Appearance: no data available

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

Biological Description

Description	EMT inhibitor-1 is an inhibitor of Hippo, Wnt signaling and TGF- macrophages (TGF-) with antitumor activity.
Targets(IC50)	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 of Hippo, TGF-β, and Wnt signaling pathways with antitumor activities[1].
In vivo	EMT inhibitor-1 (C19) (intraperitoneal injection; 5-20 mg/kg) exerts strong antitumor activity in a mouse tumor model. Mechanistically, EMT inhibitor-1 induces GSK3-β-mediated degradation of the Hippo transducer TAZ, through activation of the Hippo kinases Mst/Lats and the tumor suppressor kinase AMPK 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: 90mg/mL (281.9mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)

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.

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.

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