EMT inhibitor-1

MedChemExpress

Cat. No.:	HY-101275			
CAS No.:	1638526-21-	-2		
Molecular Formula:	C ₁₂ H ₁₂ Cl ₂ N ₂ C	∫₂S		
Molecular Weight:	319			
Target:	Hippo (MST); TGF-beta/Smad; Wnt			
Pathway:	Stem Cell/Wnt; TGF-beta/Smad			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	2 years	
		-20°C	1 year	

®

SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (3	MSO : 100 mg/mL (313.48 mM; Need ultrasonic)					
Preparing Stock Solutions	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	3.1348 mL	15.6740 mL	31.3480 mL		
	5 mM	0.6270 mL	3.1348 mL	6.2696 mL			
	10 mM	0.3135 mL	1.5674 mL	3.1348 mL			
	Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.84 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.84 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.84 mM); Clear solution						

Description	EMT inhibitor-1 is an inhibitor of of Hippo, TGF- β , and Wnt signaling pathways with antitumor activities.				
IC ₅₀ & Target	Hippo, TGF-β, Wnt ^[1] .				
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, inhibiting cancer cell migration, proliferation, and resistance to doxorubicin in vitro ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.				

Product Data Sheet

,CI

CI

OH

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^[1].C19 is dissolved in the vehicle solution (100 µL of DMEM containing 5% dimethyl sulfoxide).

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Technol Cancer Res Treat. Jan-Dec 2021;20:15330338211033077.
- Int Arch Allergy Immunol. 2021 Feb 25;1-10.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898Fax: 609-228-5909E-mail: tech@MedChemExpress.comAddress: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA