JTE-013

Cat. No.:	HY-100675		
CAS No.:	383150-41-2		
Molecular Formula:	C ₁₇ H ₁₉ Cl ₂ N ₇	0	
Molecular Weight:	408.29		
Target:	LPL Recept	or; Apopt	osis
Pathway:	GPCR/G Protein; Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	1 year
		-20°C	6 months

®

MedChemExpress

SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (244.92 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
		1 mM	2.4492 mL	12.2462 mL	24.4924 mL
		5 mM	0.4898 mL	2.4492 mL	4.8985 mL
		10 mM	0.2449 mL	1.2246 mL	2.4492 mL
	Please refer to the solubility information to select the appropriate solvent.				
In Vivo	 Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 0.83 mg/mL (2.03 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 0.83 mg/mL (2.03 mM); Clear solution 				

BIOLOGICAL ACTIVI	
DIOLOGICAL ACTIV	
Description	JTE-013 is a potent and specific S1P ₂ (Sphingosine-1-Phosphate 2; EDG-5) antagonist. JTE-013 inhibits the specific binding of radiolabeled S1P to human and rat S1P ₂ with IC ₅₀ s of 17 nM and 22 nM, respectively ^[1] .
IC ₅₀ & Target	IC50: 17 nM (S1P ₂ for human) and 22 nM (S1P ₂ for rat) ^[1]
In Vitro	JTE-013 (50-200 μM; 1-3 days) reduces cell viability ^[1] . ?JTE-013 (10-1000 nM; 30 mins) reverses S1P-induced Akt inhibition and inhibits S1P-induced ERK activation ^[1] . ?JTE-013 displays 4.2% inhibition of S1P ₃ and does not antagonize S1P ₁ at concentrations up to 10 μM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[1]

Product Data Sheet

- N . N

	Cell Line:	SK-N-AS cells
	Concentration:	50, 100, 150, 200 μM
	Incubation Time:	1-3 days
	Result:	Reduced cell viability.
	Western Blot Analysis ^[1]	
	Cell Line:	SK-N-AS cells
	Concentration:	10, 100, 1000 nM
	Incubation Time:	30 mins
	Result:	Reversed S1P-induced Akt inhibition and inhibited S1P-induced ERK activation.
n Vivo	JTE-013 (gavage; 30 mg, MCE has not independe	/kg daily for 14 consecutive days) reduces tumor size and tumor weight ^[1] . ntly confirmed the accuracy of these methods. They are for reference only.
	Animal Model:	Six-week-old female athymic NCr-nu/nu nude mice ^[1]
	Dosage:	30 mg/kg
	Administration:	Gavage; daily for 14 consecutive days
	Result	Reduced tumor size and tumor weight

CUSTOMER VALIDATION

- Nat Commun. 2023 Mar 9;14(1):1305.
- Exp Ther Med. 2018 Jun;15(6):5007-5016.
- Discov Oncol. 2023 Jan 11;14(1):4.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Li MH, et al. Antitumor Activity of a Novel Sphingosine-1-Phosphate 2 Antagonist, AB1, in Neuroblastoma. J Pharmacol Exp Ther. 2015 Sep;354(3):261-8.

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

Tel: 609-228-6898 Fax: 609-228-5909

-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA