Necrostatin 2 S enantiomer

MedChemExpress

Cat. No.:	HY-14622B			
CAS No.:	852391-20-9	352391-20-9		
Molecular Formula:	C ₁₃ H ₁₂ ClN ₃ C)2		
Molecular Weight:	277.71			
Target:	RIP kinase			
Pathway:	Apoptosis			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	2 years	
		-20°C	1 year	

SOLVENT & SOLUBILITY

		Mass Solvent	1 mg	5 mg	10 mg		
Preparing Stock Solutions		Concentration	.	Č	U		
	Preparing Stock Solutions	1 mM	3.6009 mL	18.0044 mL	36.0088 mL		
		5 mM	0.7202 mL	3.6009 mL	7.2018 mL		
		10 mM	0.3601 mL	1.8004 mL	3.6009 mL		
	Please refer to the so	lubility information to select the app	propriate solvent.				
Solubility: ≥ 3 n 2. Add each solve Solubility: ≥ 3 n 3. Add each solve	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 3 mg/mL (10.80 mM); Clear solution						
		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 3 mg/mL (10.80 mM); Clear solution					
	: one by one: 10% DMSO >> 90% corn oil s/mL (10.80 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description

Necrostatin 2 S enantiomer is the S enantiomer of Necrostatin 2. Necrostatin 2 is a potent necroptosis inhibitor, acts as a RIPK1 inhibitor lacking the IDO-targeting effect. Target: RIPK1 [4]Necrostatin 2 is a potent in vitro necroptosis inhibitors (exemplified by 1, EC50-0.05 uM) that also were efficacious in an animal model of ischemic stroke. Many Necroptosis inhibitor derivatives are designed for researchers.Necroptosis is a regulated caspase-independent cell death mechanism that results in morphological features resembling necrosis. It can be induced in a FADD-deficient variant of human Jurkat T cells treated with TNF-a. 5-(1H-Indol-3-ylmethyl)-2-thiohydantoins and 5-(1H-indol-3-ylmethyl)hydantoins were found to be potent necroptosis inhibitors (called necrostatins).

Product Data Sheet

CI

REFERENCES

[1]. Teng X, Keys H, Jeevanandam A, Structure-activity relationship study of [1,2,3]thiadiazole necroptosis inhibitors. Bioorg Med Chem Lett. 2007 Dec 15;17(24):6836-40.

[2]. Jagtap PG, Degterev A, Choi S, Structure-activity relationship study of tricyclic necroptosis inhibitors. J Med Chem. 2007 Apr 19;50(8):1886-95.

[3]. Teng X, Degterev A, Jagtap P, Structure-activity relationship study of novel necroptosis inhibitors. Bioorg Med Chem Lett. 2005 Nov 15;15(22):5039-44.

[4]. Takahashi N, et al. Necrostatin-1 analogues: critical issues on the specificity, activity and in vivo use in experimental disease models. Cell Death Dis. 2012 Nov 29;3:e437.

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

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