CPI-1189

Cat. No.:	HY-100376		
CAS No.:	183619-38-	7	
Molecular Formula:	C ₁₃ H ₁₈ N ₂ O ₂		
Molecular Weight:	234.29		
Target:	TNF Recept	tor; Apop	tosis
Pathway:	Apoptosis		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month

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SOLVENT & SOLUBILITY

In Vitro DMSO : 100 mg/mL (42		26.82 mM; Need ultrasonic)			
		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.2682 mL	21.3411 mL	42.6821 mL
		5 mM	0.8536 mL	4.2682 mL	8.5364 mL
		10 mM	0.4268 mL	2.1341 mL	4.2682 mL
	Please refer to the so	lubility information to select the app	propriate solvent.		
In Vivo		one by one: 10% DMSO >> 40% PE(g/mL (10.67 mM); Clear solution	G300 >> 5% Tween-8	0 >> 45% saline	
		one by one: 10% DMSO >> 90% (20 g/mL (10.67 mM); Clear solution	% SBE-β-CD in saline)	1	
		one by one: 10% DMSO >> 90% cor g/mL (10.67 mM); Clear solution	n oil		

BIOLOGICAL ACTIV	
Description	CPI-1189 is an orally active TNF-α release inhibitor. CPI-1189 inhibits phosphorylation of p38. CPI-1189 can inhibit apoptosis. CPI-1189 can be used in the study of HIV and neurological diseases ^{[1][2][3][4][5]} .
In Vitro	CPI-1189 (100 nM, 1 h) can effectively inhibit Oxygen glucose deprivation (OGD)/re-oxygenation (OGDR) induced oxidative damage and neuronal cell death in SH-SY5Y cells ^[3] . CPI-1189 (10 nM, 2 h) inhibits interleukin1β-induced phosphorylation of P38-mitogen-activated protein kinase ^[4] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[3]

Product Data Sheet

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Cell Line:	SH-SY5Y
Concentration:	10, 30, 100, 300 nM
Incubation Time:	1 h
Result:	Alleviated OGDR-induced cytotoxicity in a concentration-dependent manner.
Apoptosis Analysis ^[3]	
Cell Line:	SH-SY5Y
Concentration:	100 nM
Incubation Time:	1 h
Result:	Inhibited OGDR-induced caspase-3/-9 activation and ssDNA accumulation. Attenuated OGDR-induced apoptosis activation.

REFERENCES

[1]. Li YJ, et al. CPI-1189 protects neuronal cells from oxygen glucose deprivation/re-oxygenation-induced oxidative injury and cell death. Aging (Albany NY). 2021 Feb 17;13(5):6712-6723.

[2]. Hensley K, et al. CPI-1189 inhibits interleukin 1beta-induced p38-mitogen-activated protein kinase phosphorylation: an explanation for its neuroprotective properties? Neurosci Lett. 2000 Mar 10;281(2-3):179-82.

[3]. Bjugstad KB, et al. Preventive actions of a synthetic antioxidant in a novel animal model of AIDS dementia. Brain Res. 1998 Jun 8;795(1-2):349-57.

[4]. Müller T. CPI-1189. Centaur. Curr Opin Investig Drugs. 2002 Dec;3(12):1763-7.

[5]. Clifford DB, et al. A randomized clinical trial of CPI-1189 for HIV-associated cognitive-motor impairment. Neurology. 2002 Nov 26;59(10):1568-73.

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

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