STX-0119

Cat. No.:	HY-103692
CAS No.:	851095-32-4
Molecular Formula:	C ₂₂ H ₁₄ N ₄ O ₃
Molecular Weight:	382.37
Target:	STAT
Pathway:	JAK/STAT Signaling; Stem Cell/Wnt
Storage:	4°C, protect from light
	* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)

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SOLVENT & SOLUBILITY

In Vitro

DMSO: 13.33 mg/mL (34.86 mM; ultrasonic and warming and heat to 60°C)

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.6153 mL	13.0763 mL	26.1527 n
	5 mM	0.5231 mL	2.6153 mL	5.2305 m
	10 mM	0.2615 mL	1.3076 mL	2.6153 m

BIOLOGICAL ACTIV	ИТҮ		
Description	STX-0119 is a selective, orally active STAT3 dimerization inhibitor. STX-0119 inhibits STAT3 transcription with an IC ₅₀ of 74 μ M ^[1] .		
IC ₅₀ & Target	STAT3 74 μM (IC ₅₀ , STAT3 transcription)		
In Vitro	modulation of upstream STX-0119 (10-50 μM; 24 h	n) inhibits STAT3 dimerization through a direct interaction with the STAT3 protein and not via the regulators such as JAK in HEK293 and MDA-MB-468 cells ^[1] . n) reduces the expression of STAT3 target proteins ^[1] . htly confirmed the accuracy of these methods. They are for reference only.	
	Cell Line:	MDA-MB-468 cells	
	Concentration:	10, 20 and 50 μM	
	Incubation Time:	24 h	



	Result:	Reduced the expression of STAT3 target proteins, namely, c-myc, cyclin D1, and survivin, in a concentration-dependent manner. Did not suppress the expression of those STAT3- regulated oncoproteins.				
In Vivo	STX-0119 (160 mg/kg; c	STX-0119 (160 mg/kg; oral gavage; daily for 4 days) inhibits SCC-3 tumor growth in mice ^[1] .				
	The plasma concentrat administration ^[1] .	The plasma concentration of STX-0119 (160 mg/kg; oral gavage) is maintained at >100 μg/mL (>260 μM), even at 8 h after administration ^[1] .				
	MCE has not independe	MCE has not independently confirmed the accuracy of these methods. They are for reference only.				
	Animal Model:	Male BALB/cA-v/v nude mice, SCC-3 lymphoma xenograft model $^{\left[1\right] }$				
	Dosage:	160 mg/kg				
	Administration:	Oral gavage, daily for 4 days				
		Suppressed the growth of SCC-3 cells significantly on the fourth day.				

REFERENCES

[1]. Matsuno K, et al. Identification of a New Series of STAT3 Inhibitors by Virtual Screening. ACS Med Chem Lett. 2010 Jul 13;1(8):371-5.

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