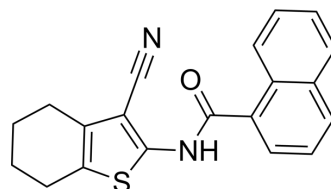


TCS JNK 5a

Cat. No.:	HY-15881		
CAS No.:	312917-14-9		
Molecular Formula:	C ₂₀ H ₁₆ N ₂ OS		
Molecular Weight:	332.42		
Target:	JNK; Apoptosis		
Pathway:	MAPK/ERK Pathway; Apoptosis		
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 : 20 mg/mL (60.16 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		3.0082 mL	15.0412 mL	30.0824 mL
		5 mM		0.6016 mL	3.0082 mL	6.0165 mL
10 mM			0.3008 mL	1.5041 mL	3.0082 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 mg/mL (6.02 mM); Suspended solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2 mg/mL (6.02 mM); Suspended solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2 mg/mL (6.02 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	TCS JNK 5a is a potent JNK3 inhibitor with a pIC ₅₀ of 6.7. TCS JNK 5a also inhibits JNK2 with a pIC ₅₀ of 6.5.	
IC ₅₀ & Target	JNK3 6.7 (pIC ₅₀)	JNK2 6.5 (pIC ₅₀)
In Vitro	TCS JNK 5a is also screened in a panel of more than 30 kinase assays, including Alk5, c-Fms, CDK-2, EGFR, ErbB2, GSK3β, PLK1, Src, Tie-2 and VegFr2, and is inactive (pIC ₅₀ <5.0) against all of them ^[1] .	

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

CUSTOMER VALIDATION

- iScience. 2023 Aug 21.

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REFERENCES

[1]. Angell RM, et al. N-(3-Cyano-4,5,6,7-tetrahydro-1-benzothien-2-yl)amides as potent, selective, inhibitors of JNK2 and JNK3. *Bioorg Med Chem Lett*. 2007 Mar 1;17(5):1296-301.

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

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