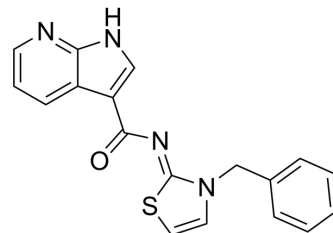


TRULI

Cat. No.:	HY-138489		
CAS No.:	1424635-83-5		
Molecular Formula:	C ₁₈ H ₁₄ N ₄ OS		
Molecular Weight:	334.39		
Target:	YAP		
Pathway:	Stem Cell/Wnt		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	1 year
		-20°C	6 months



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (149.53 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.9905 mL	14.9526 mL	29.9052 mL
		5 mM	0.5981 mL	2.9905 mL	5.9810 mL
10 mM		0.2991 mL	1.4953 mL	2.9905 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.48 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.48 mM); Clear solution Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (6.22 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	TRULI (Lats-IN-1) is a potent and ATP-competitive inhibitor of Lats1 and Lats2 kinases. TRULI promotes Yap-dependent proliferation in postmitotic mammalian tissues ^[1] .
In Vitro	The IC ₅₀ for TRULI increases with the ATP concentration ^[1] . TRULI (10 μM; 24 hours) interferes with the ability of Lats kinases to phosphorylate Yap, with an EC ₅₀ of 510 nM ^[1] . TRULI causes Yap-dependent proliferation of murine supporting cells in the inner ear, murine cardiomyocytes, and human Müller glia in retinal organoids ^[1] .

TRULI fosters both the G1-S and G2-M checkpoint transitions and yields supporting cells capable of transdifferentiation^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation Assay^[1]

Cell Line:	MCF 10A cells
Concentration:	10 μ M
Incubation Time:	24 hours
Result:	Decreased the phosphorylation of Yap at residue S127.

CUSTOMER VALIDATION

- EMBO J. 2023 Jan 2;e112184.
- Oncogene. 2023 Aug 17.
- PLoS Pathog. 2023 Mar 27;19(3):e1011272.
- Cells. 2023 May 29, 12(11), 1503.
- Mol Carcinog. 2023 Apr 12.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Nathaniel Kastan, et al. Small-molecule inhibition of Lats kinases promotes Yap-dependent proliferation in postmitotic mammalian tissues. bioRxiv 2020.02.11.944157.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

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