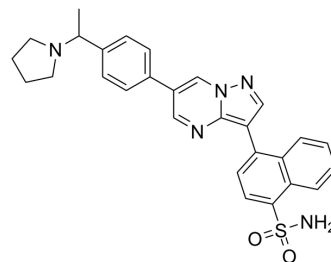


ALK2-IN-2

Cat. No.:	HY-112815		
CAS No.:	2254409-25-9		
Molecular Formula:	C ₂₈ H ₂₇ N ₅ O ₂ S		
Molecular Weight:	497.61		
Target:	TGF-β Receptor		
Pathway:	TGF-beta/Smad		
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 : 125 mg/mL (251.20 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	2.0096 mL	10.0480 mL	20.0961 mL
	5 mM	0.4019 mL	2.0096 mL	4.0192 mL
	10 mM	0.2010 mL	1.0048 mL	2.0096 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 >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.18 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.18 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.18 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	ALK2-IN-2 is a potent and selective inhibitor of activin receptor-like kinase 2 (ALK2) with an IC ₅₀ of 9 nM, and over 700-fold selectivity against ALK3 ^[1] .
IC₅₀ & Target	ACVR1 9 nM (IC ₅₀)

CUSTOMER VALIDATION

- J Cell Mol Med. 2020 Dec 22.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Jiang JK, et al. Discovery of 3-(4-sulfamoylnaphthyl)pyrazolo[1,5-a]pyrimidines as potent and selective ALK2 inhibitors. Bioorg Med Chem Lett. 2018 Nov 1;28(20):3356-3362.

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

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