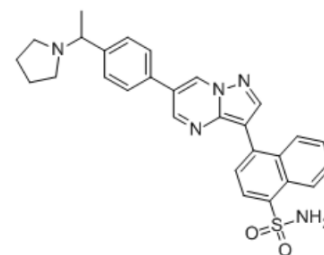


ALK2-IN-2

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	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (251.20 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	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

- 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 IC₅₀ of 9 nM, and over 700-fold selectivity against ALK3^[1].

IC₅₀ & Target

ALK2
9 nM (IC₅₀)

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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