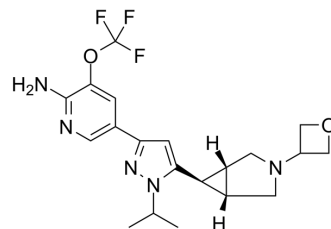


DLK-IN-1

Cat. No.:	HY-114331		
CAS No.:	1620574-24-4		
Molecular Formula:	C ₂₀ H ₂₄ F ₃ N ₅ O ₂		
Molecular Weight:	423.43		
Target:	MAP3K		
Pathway:	MAPK/ERK Pathway		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 62.5 mg/mL (147.60 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		2.3617 mL	11.8083 mL	23.6167 mL
		5 mM		0.4723 mL	2.3617 mL	4.7233 mL
	10 mM		0.2362 mL	1.1808 mL	2.3617 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.91 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.91 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	DLK-IN-1 is a selective, orally active inhibitor of dual leucine zipper kinase (DLK, MAP3K12), with a K _i of 3 nM. DLK-IN-1 retains excellent CNS penetration and is well tolerated following multiple days of dosing at concentrations that exceed those required for DLK inhibition in the brain. DLK-IN-1 has activity in a model of Alzheimer's Disease.
IC₅₀ & Target	K _i : 3 nM (DLK) ^[1] .

REFERENCES

[1]. Patel S, et al. Selective Inhibitors of Dual Leucine Zipper Kinase (DLK, MAP3K12) with Activity in a Model of Alzheimer's Disease. J Med Chem. 2017 Oct 12;60(19):8083-

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

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