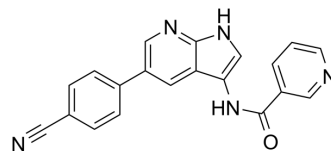


Pim1/AKK1-IN-1

Cat. No.:	HY-10371		
CAS No.:	1093222-27-5		
Molecular Formula:	C ₂₀ H ₁₃ N ₅ O		
Molecular Weight:	339.35		
Target:	Pim		
Pathway:	JAK/STAT Signaling		
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 : 50 mg/mL (147.34 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	2.9468 mL	14.7340 mL	29.4681 mL
	5 mM	0.5894 mL	2.9468 mL	5.8936 mL
	10 mM	0.2947 mL	1.4734 mL	2.9468 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: ≥ 2.5 mg/mL (7.37 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	Pim1/AKK1-IN-1 is a potent multi-kinase inhibitor with K _d values of 35 nM/53 nM/75 nM/380 nM for Pim1/AKK1/MST2/LKB1 respectively, and also inhibits MPSK1 and TNIK.
IC ₅₀ & Target	PIM1
In Vitro	Pim1/AKK1-IN-1 is multi-kinase inhibitor, and has K _d of 380 nM against LKB1 and 53 nM against AAK1 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

-
- Nat Metab. 2022 Sep 1.
 - EMBO J. 2021 Sep 2;e108028.
 - Cell Rep. 2022 Aug 16;40(7):111188.
 - Animals (Basel). 2022 Sep 19;12(18):2474.

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REFERENCES

[1]. Bamborough P, et al. Assessment of chemical coverage of kinome space and its implications for kinase drug discovery. J Med Chem. 2008 Dec 25;51(24):7898-914.

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

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