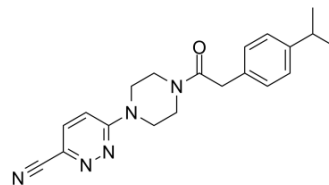


PZ-2891

Cat. No.:	HY-124634		
CAS No.:	2170608-82-7		
Molecular Formula:	C ₂₀ H ₂₃ N ₅ O		
Molecular Weight:	349.43		
Target:	Others		
Pathway:	Others		
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 : 75 mg/mL (214.64 mM; Need ultrasonic)
 H₂O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.8618 mL	14.3090 mL	28.6180 mL
	5 mM	0.5724 mL	2.8618 mL	5.7236 mL
	10 mM	0.2862 mL	1.4309 mL	2.8618 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo
 1. Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (7.15 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
 PZ-2891 is an oral, allosteric, and brain penetrant **pantothenate kinase (PANK)** modulator, acting as both an orthosteric inhibitor (IC₅₀=1.3 nM) and an allosteric activator of PANK3 activity in the presence of acetyl-CoA.

IC₅₀ & Target
 IC₅₀: 1.3 nM (PANK)^[1]

REFERENCES

[1]. Sharma LK, et al. A therapeutic approach to pantothenate kinase associated neurodegeneration. Nat Commun. 2018 Oct 23;9(1):4399.

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

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