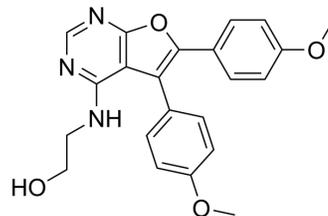


AK-IN-1

Cat. No.:	HY-148327
CAS No.:	378775-98-5
Molecular Formula:	C ₂₂ H ₂₁ N ₃ O ₄
Molecular Weight:	391.42
Target:	Adenosine Kinase
Pathway:	Metabolic Enzyme/Protease; Neuronal Signaling
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (255.48 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.5548 mL	12.7740 mL	25.5480 mL
				5 mM	0.5110 mL	2.5548 mL	5.1096 mL
				10 mM	0.2555 mL	1.2774 mL	2.5548 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 (6.39 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	AK-IN-1 (compound 4072-2732) is an adenosine kinase (AK) inhibitor that is competitive for adenosine (Ado) but not for ATP. AK-IN-1 inhibits 86%, 87% and 89% of AK activity at concentrations of 2, 4 and 10 μM, respectively. AK-IN-1 has good potential for research in many disease areas, including ischaemia, inflammation and seizures ^[1] .
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REFERENCES

[1]. Park J, et al. Identification and biochemical studies on novel non-nucleoside inhibitors of the enzyme adenosine kinase. Protein J. 2007 Apr;26(3):203-12.

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

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