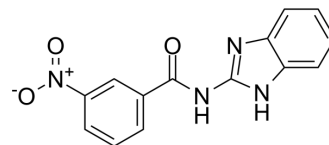


IRAK-4 protein kinase inhibitor 2

Cat. No.:	HY-77048		
CAS No.:	301675-24-1		
Molecular Formula:	C ₁₄ H ₁₀ N ₄ O ₃		
Molecular Weight:	282.25		
Target:	IRAK		
Pathway:	Immunology/Inflammation		
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 : 10 mg/mL (35.43 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	3.5430 mL	17.7148 mL	35.4296 mL
	5 mM	0.7086 mL	3.5430 mL	7.0859 mL
	10 mM	0.3543 mL	1.7715 mL	3.5430 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: ≥ 1 mg/mL (3.54 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	IRAK-4 protein kinase inhibitor 2 (compound 1) is a potent inhibitor of interleukin-1 (IL-1) receptor-associated kinase-4 (IRAK-4), with an IC ₅₀ of 4 μM. IRAK-4 protein kinase inhibitor 2 can be used for the research of inflammatory and immune-related conditions or disorders ^[1] .
IC₅₀ & Target	IRAK4 4 μM (IC ₅₀)
In Vitro	IRAK-4 protein kinase inhibitor 2 (compound 1) also inhibits IRAK-1, with an IC ₅₀ of <10 μM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

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