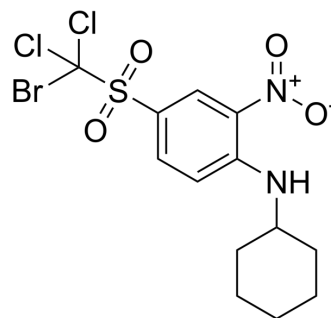


WNK1-IN-1

Cat. No.:	HY-151545		
CAS No.:	324022-39-1		
Molecular Formula:	C ₁₃ H ₁₅ BrCl ₂ N ₂ O ₄ S		
Molecular Weight:	446.14		
Target:	Ser/Thr Protease		
Pathway:	Metabolic Enzyme/Protease		
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 : 100 mg/mL (224.14 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.2414 mL	11.2072 mL	22.4145 mL
		5 mM	0.4483 mL	2.2414 mL	4.4829 mL
10 mM		0.2241 mL	1.1207 mL	2.2414 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (5.60 mM); Clear solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (5.60 mM); Clear solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (5.60 mM); Clear solution; Need ultrasonic 				

BIOLOGICAL ACTIVITY

Description	WNK1-IN-1 is a selective inhibitor of WNK1 with an IC ₅₀ value of 1.6 μM. WNK1-IN-1 inhibits OSR1 phosphorylation with an IC ₅₀ value of 4.3 μM. WNK1-IN-1 can be used for the research of blood pressure regulation and cancer ^[1] .
IC₅₀ & Target	IC ₅₀ : 1.6 μM (WNK1), 4.3 μM (OSR1 phosphorylation) ^[1]
In Vitro	WNK1-IN-1 (0-1000 μM; 30 min) shows high potency to WNK1 with an IC ₅₀ value of 1.6 μM ^[1] . WNK1-IN-1 (0.2-12.5 μM; 24 h) inhibits endogenous OSR1 phosphorylation with an IC ₅₀ value of 4.3 μM in MDAMB231 breast-

cancer cells^[1].

WNK1-IN-1 (0-100 mM) is 10-fold more potent to WNK1 than WNK3 in Kinase-Glo assay^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Rodriguez M, et al. Synthesis and Structural Characterization of Novel Trihalo-sulfone Inhibitors of WNK1. ACS Med Chem Lett. 2022 Sep 23;13(10):1678-1684.

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

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