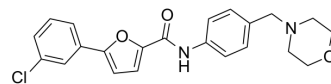


CID 2011756

Cat. No.:	HY-13454		
CAS No.:	638156-11-3		
Molecular Formula:	C ₂₂ H ₂₁ ClN ₂ O ₃		
Molecular Weight:	396.87		
Target:	PKD		
Pathway:	Apoptosis		
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 : 20 mg/mL (50.39 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		2.5197 mL	12.5986 mL	25.1972 mL
		5 mM		0.5039 mL	2.5197 mL	5.0394 mL
		10 mM		0.2520 mL	1.2599 mL	2.5197 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 mg/mL (5.04 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2 mg/mL (5.04 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	CID 2011756 is an ATP competitive PKD inhibitor, with an IC ₅₀ of 3.2 μM for PKD1 in cell free assay, and also shows cellular pan-PKD inhibitory activity against PKD2 and PKD3 (IC ₅₀ , 0.6 and 0.7 μM, respectively). CID 2011756 also has antitumor activity.
IC ₅₀ & Target	IC ₅₀ : 3.2 μM (PKD1), 0.6 μM (Cellular PKD2), 0.7 μM (Cellular PKD3) ^[1]
In Vitro	CID 2011756 is an ATP-competitive PKD1 inhibitor, with an IC ₅₀ of 3.2 μM. CID 2011756 decreases the phosphorylation of endogenous PKD1 Ser ⁹¹⁶ in LNCaP cancer cells with an EC ₅₀ of 10±0.7 μM. CID 2011756 also has cellular pan-PKD inhibitory effects, with IC ₅₀ s of 0.6±0.1 μM and 0.7±0.2 μM for PKD2 and PKD3, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Sharlow ER, et al. Discovery of diverse small molecule chemotypes with cell-based PKD1 inhibitory activity. PLoS One. 2011;6(10):e25134.

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

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