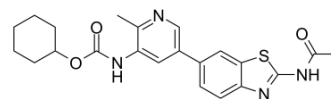


PK68

Cat. No.:	HY-128348		
CAS No.:	2173556-69-7		
Molecular Formula:	C ₂₂ H ₂₄ N ₄ O ₃ S		
Molecular Weight:	424.52		
Target:	RIP kinase		
Pathway:	Apoptosis		
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 : 30 mg/mL (70.67 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		2.3556 mL	11.7780 mL	23.5560 mL
5 mM		0.4711 mL	2.3556 mL	4.7112 mL	
10 mM		0.2356 mL	1.1778 mL	2.3556 mL	

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

In Vivo

- Add each solvent one by one: **10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline**
Solubility: ≥ 3 mg/mL (7.07 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% (20% SBE-β-CD in saline)**
Solubility: ≥ 3 mg/mL (7.07 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% corn oil**
Solubility: ≥ 3 mg/mL (7.07 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PK68 is a potent and selective type II inhibitor of **receptor-interacting kinase 1 (RIPK1)** with an IC₅₀ of ~90 nM, displays inhibition of RIPK1-dependent necroptosis. PK68 powerfully ameliorates TNF-induced systemic inflammatory response syndrome, and with great potential for use in the treatment of inflammatory disorders and cancer metastasis^[1].

IC₅₀ & Target

IC₅₀: ~ 90 nM (RIPK1)^[1]

REFERENCES

[1]. Hou J, et al. Discovery of potent necroptosis inhibitors targeting RIPK1 kinase activity for the treatment of inflammatory disorder and cancer metastasis. Cell Death Dis. 2019 Jun 24;10(7):493.

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

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