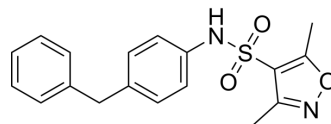


PP5-IN-1

Cat. No.:	HY-155374		
CAS No.:	1022417-69-1		
Molecular Formula:	C ₁₈ H ₁₈ N ₂ O ₃ S		
Molecular Weight:	342.41		
Target:	Phosphatase; Apoptosis		
Pathway:	Metabolic Enzyme/Protease; 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 : 100 mg/mL (292.05 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.9205 mL	14.6024 mL	29.2048 mL
	5 mM	0.5841 mL	2.9205 mL	5.8410 mL
	10 mM	0.2920 mL	1.4602 mL	2.9205 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: ≥ 2.5 mg/mL (7.30 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (7.30 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PP5-IN-1 (Compound P053) is a competitive inhibitor of Serine/threonine protein phosphatase-5 (PP5) that binds to its catalytic domain and causes apoptosis in renal cancer^[1].

REFERENCES

- [1]. Elham F Ahanin, et al. Catalytic inhibitor of Protein Phosphatase 5 activates the extrinsic apoptotic pathway by disrupting complex II in kidney cancer. Cell Chem Biol. 2023 Oct 19;30(10):1223-1234.e12.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA