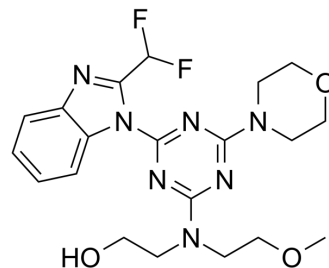


PI3K-IN-30

Cat. No.:	HY-143404		
CAS No.:	2281803-22-1		
Molecular Formula:	C ₂₀ H ₂₅ F ₂ N ₇ O ₃		
Molecular Weight:	449.45		
Target:	PI3K		
Pathway:	PI3K/Akt/mTOR		
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 (222.49 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		2.2249 mL	11.1247 mL	22.2494 mL
		5 mM		0.4450 mL	2.2249 mL	4.4499 mL
10 mM			0.2225 mL	1.1125 mL	2.2249 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: 2.5 mg/mL (5.56 mM); Clear solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (5.56 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	PI3K-IN-30 (compound 6d) is a potent PI3K inhibitor with IC ₅₀ s of 5.1, 136, 30.7 and 8.9 nM for PI3K α , PI3K β , PI3K γ and PI3K δ , respectively ^[1] .			
IC ₅₀ & Target	PI3K α 5.1 nM (IC ₅₀)	PI3K β 136 nM (IC ₅₀)	PI3K γ 30.7 nM (IC ₅₀)	PI3K δ 8.9 nM (IC ₅₀)

REFERENCES

[1]. Van Dort ME, et al. Structural effects of morpholine replacement in ZSTK474 on Class I PI3K isoform inhibition: Development of novel MEK/PI3K bifunctional inhibitors. Eur J Med Chem. 2022;229:113996.

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

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