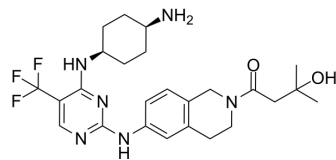


FLT3/CHK1-IN-1

Cat. No.:	HY-155195
CAS No.:	2991054-23-8
Molecular Formula:	C ₂₅ H ₃₃ F ₃ N ₆ O ₂
Molecular Weight:	506.56
Target:	Others
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (197.41 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	1.9741 mL	9.8705 mL	19.7410 mL
				5 mM	0.3948 mL	1.9741 mL	3.9482 mL
				10 mM	0.1974 mL	0.9870 mL	1.9741 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 (4.94 mM); Clear solution; Need ultrasonic						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (4.94 mM); Clear solution; Need ultrasonic						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (4.94 mM); Clear solution; Need ultrasonic						

BIOLOGICAL ACTIVITY

Description	FLT3/CHK-IN-1 (Compound 18) is a dual inhibitor of FLT3/CHK1. FLT3/CHK-IN-1 is more than 1700 times more selective to c-KIT and greatly reduces hERG affinity with an IC ₅₀ value of 58.4 μM. FLT3/CHK-IN-1 inhibits tumor growth in mouse xenotransplantation models inoculated with MV-4-11 cells ^[1] .
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REFERENCES

[1]. Li X, et al. Discovery of 2-Aminopyrimidine Derivatives as Potent Dual FLT3/CHK1 Inhibitors with Significantly Reduced hERG Inhibitory Activities. J Med Chem. 2023 Sep

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

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