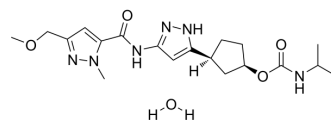


Tagtociclib hydrate

Cat. No.:	HY-137894A
CAS No.:	2733575-91-0
Molecular Formula:	C ₁₉ H ₃₀ N ₆ O ₅
Molecular Weight:	422.48
Target:	CDK; GSK-3
Pathway:	Cell Cycle/DNA Damage; PI3K/Akt/mTOR; Stem Cell/Wnt
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 200 mg/mL (473.40 mM; Need ultrasonic)					
		Solvent Concentration	Mass			
	Preparing Stock Solutions			1 mg	5 mg	10 mg
		1 mM		2.3670 mL	11.8349 mL	23.6698 mL
		5 mM		0.4734 mL	2.3670 mL	4.7340 mL
	10 mM		0.2367 mL	1.1835 mL	2.3670 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 5 mg/mL (11.83 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 5 mg/mL (11.83 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 5 mg/mL (11.83 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	PF-07104091 hydrate is a potent and selective CDK2/cyclin E ₁ and GSK3β inhibitor, with K _i s of 1.16 and 537.81 nM, respectively. PF-07104091 hydrate has anti-tumor activity for cyclin E ₁ -amplified cancers. (patent WO2020157652A2).	
IC₅₀ & Target	CDK2/cyclin E1 1.16 nM (K _i)	GSK3β 537.81 nM (K _i)
In Vitro	PF-07104091 hydrate (Example 13) inhibits CDK1/cyclin A ₂ , CDK4/cyclin D ₁ , CDK6/cyclin D ₃ and CDK9, with K _i s of 110, 238, 465 and 117 nM, respectively ^[1] .	

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Douglas Carl BEHENNA, et al. Cdk2 inhibitors. WO2020157652A2.

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

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