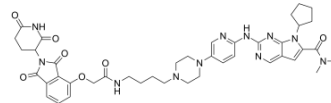


BSJ-04-132

Cat. No.:	HY-136252
CAS No.:	2349356-39-2
Molecular Formula:	C ₄₂ H ₄₉ N ₁₁ O ₇
Molecular Weight:	819.91
Target:	PROTAC; CDK
Pathway:	PROTAC; Cell Cycle/DNA Damage
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (121.96 mM; Need ultrasonic)					
	H ₂ O : < 0.1 mg/mL (insoluble)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	1.2196 mL	6.0982 mL	12.1965 mL
			5 mM	0.2439 mL	1.2196 mL	2.4393 mL
10 mM			0.1220 mL	0.6098 mL	1.2196 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 (3.05 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (3.05 mM); Suspended solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (3.05 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	BSJ-04-132 is a potent and selective Ribociclib-based CDK4 degrader (PROTAC), with IC ₅₀ s of 50.6 nM and 30 nM for CDK4/D1 and CDK6/D1, respectively. BSJ-04-132 does not induce CDK6 and IKZF1/3 degradation. BSJ-04-132 has anti-cancer activity [1].	
IC ₅₀ & Target	CDK4/D1 50.6 nM (IC ₅₀)	CDK6/D1 30 nM (IC ₅₀)
In Vitro	BSJ-04-132 (0.1-5 μM; for 4 hours) only results in degradation of CDK4 in WT cells, not CDK6 and IKZF1/3 ^[1] .	

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

Western Blot Analysis^[1]

Cell Line:	Wildtype (WT) or Crbn ^{-/-} Jurkat cells
Concentration:	0.1, 0.5, 1, 5 μM
Incubation Time:	For 4 hours
Result:	Only resulted in degradation of CDK4 in WT cells, not CDK6 and IKZF1/3.

REFERENCES

[1]. Baishan Jiang, et al. Development of Dual and Selective Degraders of Cyclin-Dependent Kinases 4 and 6. *Angew Chem Int Ed Engl.* 2019 May 6;58(19):6321-6326.

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

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