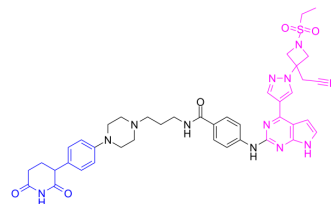


SJ10542

Cat. No.:	HY-145696
CAS No.:	2789678-92-6
Molecular Formula:	C ₄₁ H ₄₆ N ₁₂ O ₅ S
Molecular Weight:	818.95
Target:	JAK; PROTACs
Pathway:	Epigenetics; JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Stem Cell/Wnt; PROTAC
Storage:	4°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 : 46.67 mg/mL (56.99 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	1.2211 mL	6.1054 mL	12.2108 mL
		5 mM	0.2442 mL	1.2211 mL	2.4422 mL
		10 mM	0.1221 mL	0.6105 mL	1.2211 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (3.05 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	SJ10542 is a potent and selective JAK2/3 directing phenyl glutarimide (PG)-PROTAC with DC ₅₀ s of 14, 11, and 24 nM for JAK2, JAK3, and JAK2-fusion ALL, respectively. SJ10542 utilizes a PG ligand as the cereblon (CRBN) recruiter ^[1] .			
IC₅₀ & Target	JAK2 14 nM (DC50)	JAK3 11 nM (DC50)	JAK2-fusion ALL 24 nM (DC50)	Cereblon

REFERENCES

[1]. Lisa J.Alcock,et al. Development of Potent and Selective Janus Kinase 2/3 Directing PG-PROTACs.ACS Med.Chem.Lett.2022,13,3,475-482.

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

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