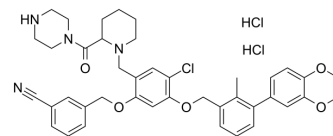


BMS-1166-N-piperidine-CO-N-piperazine dihydrochloride

Cat. No.:	HY-131386A		
CAS No.:	2691796-83-3		
Molecular Formula:	C ₄₁ H ₄₅ Cl ₃ N ₄ O ₅		
Molecular Weight:	780.18		
Target:	Target Protein Ligand-Linker Conjugates		
Pathway:	PROTAC		
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 (128.18 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	1.2818 mL	6.4088 mL	12.8176 mL
	5 mM	0.2564 mL	1.2818 mL	2.5635 mL
	10 mM	0.1282 mL	0.6409 mL	1.2818 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 (3.20 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (3.20 mM); Suspended solution; Need ultrasonic			

BIOLOGICAL ACTIVITY

Description	BMS-1166-N-piperidine-CO-N-piperazine dihydrochloride incorporates a ligand for PD-1/PD-L1 immune checkpoint, and a PROTAC linker. BMS-1166-N-piperidine-CO-N-piperazine dihydrochloride can be used in the synthesis of PROTAC PD-1/PD-L1 degrader-1 (HY-131183). PROTAC PD-1/PD-L1 degrader-1 inhibits PD-1/PD-L1 interaction with an IC ₅₀ of 39.2 nM ^[1] .
In Vitro	PROTACs contain two different ligands connected by a linker; one is a ligand for an E3 ubiquitin ligase and the other is for the target protein. PROTACs exploit the intracellular ubiquitin-proteasome system to selectively degrade target proteins ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Cheng B, Ren Y, Cao H, Chen J. Discovery of novel resorcinol diphenyl ether-based PROTAC-like molecules as dual inhibitors and degraders of PD-L1. Eur J Med Chem. 2020;199:112377.

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

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