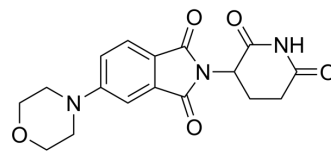


PT-179

Cat. No.:	HY-160695		
CAS No.:	2924858-25-1		
Molecular Formula:	C ₁₇ H ₁₇ N ₃ O ₅		
Molecular Weight:	343.33		
Target:	Ligands for E3 Ligase; Molecular Glues		
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 : 125 mg/mL (364.08 mM; ultrasonic and warming and heat to 60°C)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.9126 mL	14.5632 mL	29.1265 mL
	5 mM	0.5825 mL	2.9126 mL	5.8253 mL
	10 mM	0.2913 mL	1.4563 mL	2.9126 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

PT-179 is an orthogonal Thalidomide (HY-14658) derivative that targets cereblon without causing off-target degradation effects. PT-179 is able to specifically bind CRBN, form a ternary complex with a target protein fused to a zinc finger (ZF) degron, and mediate the degradation of the tagged protein. For example, PT-179 binds to the ubiquitin ligase substrate receptor cereblon by forming a complex with SD40 and efficiently degrades proteins N- or C-terminally fused to SD40 or SD36 (DC50 for eGFP: 4.5 nM and 14.3 nM). PT-179 can be used to develop compact protein degradation tagging platforms^[1].

In Vitro

SD40 is a degradation tag specific for PT-179. PT-179 (1-10 μM; 24 h) can induce eGFP degradation in HEK293T cells. The higher the evolution degree of the degron variant, the stronger the degradation efficiency of the corresponding tagged protein^[1].

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

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

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