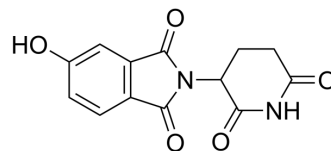


Thalidomide-5-OH

Cat. No.:	HY-23095		
CAS No.:	64567-60-8		
Molecular Formula:	C ₁₃ H ₁₀ N ₂ O ₅		
Molecular Weight:	274.23		
Target:	E3 Ligase Ligand-Linker Conjugates; Apoptosis; Autophagy		
Pathway:	PROTAC; Apoptosis; Autophagy		
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 : 62.5 mg/mL (227.91 mM; Need ultrasonic)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Concentration</th> <th colspan="3">Mass</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>3.6466 mL</td> <td>18.2329 mL</td> <td>36.4657 mL</td> </tr> <tr> <td>5 mM</td> <td>0.7293 mL</td> <td>3.6466 mL</td> <td>7.2931 mL</td> </tr> <tr> <td>10 mM</td> <td>0.3647 mL</td> <td>1.8233 mL</td> <td>3.6466 mL</td> </tr> </tbody> </table>	Solvent	Concentration	Mass			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	3.6466 mL	18.2329 mL	36.4657 mL	5 mM	0.7293 mL	3.6466 mL	7.2931 mL	10 mM	0.3647 mL	1.8233 mL	3.6466 mL
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	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: ≥ 2.08 mg/mL (7.58 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (7.58 mM); Clear solution 																					

BIOLOGICAL ACTIVITY

Description	Thalidomide-5-OH is the Thalidomide-based cereblon ligand used in the recruitment of CRBN protein. Thalidomide-5-OH can be connected to the ligand for protein by a linker to form PROTACs ^[1] .
IC₅₀ & Target	Cereblon

REFERENCES

[1]. Megan G Marks, et al. Effects of Putative Hydroxylated Thalidomide Metabolites on Blood Vessel Density in the Chorioallantoic Membrane (CAM) Assay and on Tumor

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

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