

Product Name: Thalidomide Revision Date: 01/10/2021

Product Data Sheet

Thalidomide

Cat. No.:	A4216		
CAS No.:	50-35-1		
Formula:	C13H10N2O4		
M.Wt:	258.23		
Synonyms:			
Target:	Apoptosis		
Pathway:	TNF-α		
Storage:	Store at -20°C		
	eil		

Solvent & Solubility

	insoluble in H2O; ins	insoluble in H2O; insoluble in EtOH; \geq 11.8 mg/mL in DMSO			
In Vitro	Preparing Stock Solutions	Mass Solvent Concentration	1mg	5mg	10mg
	Stock solutions	1 mM	3.8725 mL	19.3626 mL	38.7252 mL
		5 mM	0.7745 mL	3.8725 mL	7.7450 mL
	PERM	10 mM	0.3873 mL	1.9363 mL	3.8725 mL

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

Biological Activity

Shortsummary

Immunomodulatory agent, sedative drug, angiogenesis inhibitor

IC₅₀ & Target

In Vitro

A
bility of this compound in DMSO is > 11.8 mg/mL. General tips for a higher concentration: Please warm the tube at 37 °C for 10 minutes ake it in the ultrasonic bath for a while. Stock solution can be stored 0 °C for several months.
g/mL
0

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	Applications:	Thalidomide dose-dependently increased the proliferative responses of			
		PBMCs stimulated by immobilized anti-CD3. As the concentration of anti-CD3			
		increased, Thalidomide at a constant concentration of 10 $\mu\text{g/mL}$ significantly			
		induced the proliferative responses of PBMCs. However, Thalidomide			
		exhibited no effect on the proliferative response in the absence of anti-CD3.			
	These results indicated that Thalidomide was not mitogenic, Instead, it act				
	OFFICIAL STATE	as a costimulator.			
	Animal experiment	See Channel			
	Animal models:	Rabbits			
	Dosage form:	200 mg/kg; p.o.			
	Applications:	In rabbits, Thalidomide at the dose of 200 mg/kg inhibited the area of			
		vascularized cornea, with a median inhibition of 36%. The inhibition of			
In Vivo		Thalidomide on angiogenesis was seen after only two doses. In addition, the			
		rabbits did not show significant sedation, and there were no signs of toxicity or			
	3 10	weight loss.			
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may			
	Provide State	slightly differ with the theoretical value. This is caused by an experimental			
		system error and it is normal.			

Product Citations

See more customer validations on www.apexbt.com.



[1]. Haslett PA, Corral LG, Albert M, Kaplan G. Thalidomide costimulates primary human T lymphocytes, preferentially inducing proliferation, cytokine production, and cytotoxic responses in the CD8+ subset. J Exp Med. 1998 Jun 1;187(11):1885-92. [2]. D'Amato RJ, Loughnan MS, Flynn E, Folkman J. Thalidomide is an inhibitor of angiogenesis. Proc Natl Acad Sci U S A. 1994 Apr 26;91(9):4082-5.

APER



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Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt

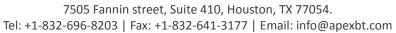
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of the product, follow the storage recommendations on the product data sheet.





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