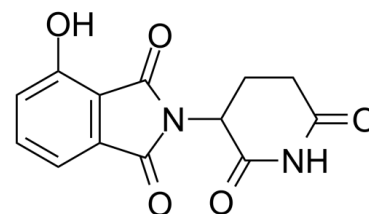


Data Sheet

Product Name:	Thalidomide-OH
Cat. No.:	CS-7732
CAS No.:	5054-59-1
Molecular Formula:	C ₁₃ H ₁₀ N ₂ O ₅
Molecular Weight:	274.23
Target:	Ligand for E3 Ligase
Pathway:	PROTAC
Solubility:	DMSO : ≥ 36.5 mg/mL (133.10 mM)



BIOLOGICAL ACTIVITY:

Thalidomide-OH (Cereblon ligand 2) is the Thalidomide-based Cereblon ligand used in the recruitment of CRBN protein. Thalidomide-OH (Cereblon ligand 2) can be connected to the ligand for protein by a linker to form PROTACs^[1]. **In Vitro:** Thalidomide may exert anti-angiogenic effect in isolated blood vessels and endothelial cells. Thalidomide-OH is a putative hydroxylated thalidomide metabolite. Thalidomide-OH has weak anti-angiogenic activity (14% mean inhibition of blood vessel density at 100 mg). Thalidomide-OH does not have any anti-proliferative effect against the breast or neuroblastoma cells, but do possess appreciable anti-proliferative activity against the endothelial cells^[1].

References:

[1]. Marks MG, et al. Effects of putative hydroxylated thalidomide metabolites on blood vessel density in the chorioallantoic membrane (CAM) assay and on tumor and endothelial cell proliferation. Biol Pharm Bull. 2002 May;25(5):597-604.

CAIndexNames:

1H-Isoindole-1,3(2H)-dione, 2-(2,6-dioxo-3-piperidinyl)-4-hydroxy-

SMILES:

OC1=CC=CC(C(N2C3C(NC(CC3)=O)=O)=O)=C1C2=O

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

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