



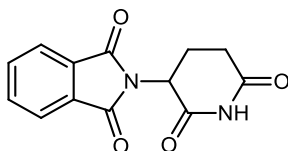
Catalog # 10-1115

Thalidomide

CAS# 50-35-1

N-(2,6-Dioxo-3-piperidiny)phthalimide, racemic

Lot # X101499



Binds to the E3 ubiquitin ligase complex formed between CRBN, DDB1 and Cul4A, and inhibits the ligase activity. Inhibits TNF synthesis and FGF-induced angiogenesis. Clinically useful chemotherapeutic acid for multiple myeloma. Cell permeable. Handle with caution, compound is teratogenic.

- 1) Ito *et al.* (2010), *Identification of a primary target of thalidomide teratogenicity*; Science **327** 1345
- 2) Weglicki *et al.* (1993), *Inhibition of tumor necrosis factor-alpha by thalidomide in magnesium deficiency*; Mol. Cell. Biochem. **129** 195
- 3) D'Amato *et al.* (1994), *Thalidomide is an inhibitor of angiogenesis*; Proc. Natl. Acad. Sci. USA **91** 4082

PHYSICAL DATA

Molecular Weight:	258.25
Molecular Formula:	C ₁₃ H ₁₀ N ₂ O ₄
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 5 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at room temperature for up to 2 years from the date of purchase. Protect from exposure to moisture. Solutions in DMSO may be stored at -20°C for up to 1 month.

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