LKT Laboratories, Inc.

Thalidomide

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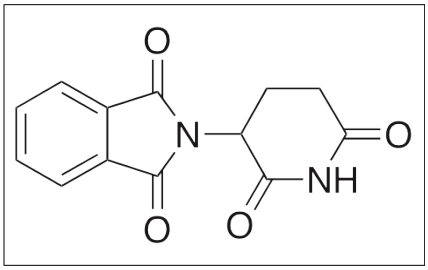
Product Information

Product ID T2800
CAS No. 50-35-1
Chemical Name (±)-2-(2,6-Dioxo-3-piperidinyl)-1H-isoindole-1,3(2H)-dione

Synonym 1,3-Dioxo-2-(2,6-dioxopiperidin-3-yl)isoindoline, Actimid, Calmore, Distaval, Sedimide,Telagan

Formula $C_{13}H_{10}N_2O_4$
Formula Wt. 258.23
Melting Point 269-271°C
Purity ≥98%
Solubility Insoluble in water and ethanol. Soluble in DMSO (56 mg/mL).

Store Temp Ambient
Ship Temp Ambient



Bulk quanitites available upon request

Product ID	Size
T2800	25 mg
T2800	100 mg
T2800	250 mg
T2800	500 mg

Description Thalidomide has previously been clinically used as a sedative but was found to induce birth defects in pregnant females. Recently, thalidomide exhibits anticancer chemotherapeutic potential in the treatment of multiple myeloma. Additionally, thalidomide displays anti-inflammatory and immunomodulatory activities, improving TNBS-induced colitis in animal models by increasing expression of IL-10 and decreasing expression of TNF-α and IL-1β.

References

Lien IC, Horng LY, Hsu PL, et al. Internal ribosome entry site of bFGF is the target of thalidomide for IMiDs development in multiple myeloma. Genes Cancer. 2014 Mar;5(3-4):127-41. PMID: 25053990.

Xu J, Zheng C, Huang Y, et al. Efficacy of thalidomide on trinitrobenzene sulfonate-induced colitis in young rats and its mechanism. Chin Med J (Engl). 2014;127(12):2368-75. PMID: 24931258.

Zhou S, Wang F, Hsieh TC, et al. Thalidomide-a notorious sedative to a wonder anticancer drug. Curr Med Chem. 2013;20 (33):4102-8. PMID: 23931282.