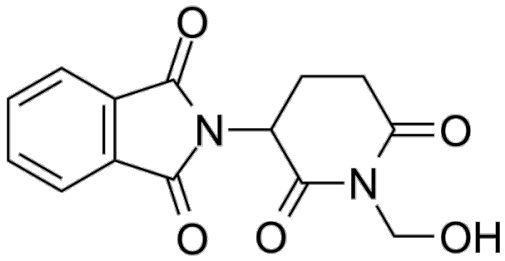
# Product Data Sheet

Product Name: CPS-11
Cat. No.: GC72888

## Chemical Properties

| | | | |
|---|---|---|---|
| Cas. No. | 145945-21-7 | | |
| Formula | $C_{14}H_{12}N_2O_5$ | M.Wt | 288.26 |
| Solubility | DMSO : 57.7 mg/mL (200.17 mM; Need ultrasonic and warming) | Storage | 4°C, protect from light |
| General tips | For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months. | | |
| Shipping Condition | Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request. | | |
| Structure | | | |




## Background

CPS-11 (N-(droxymetl)thalidomide) a Thalidomide analogue, is a potent anti-cancer agent. CPS-11 inhibits NF-κB, activates NFAT, and repress cytokine expression through elevated ROS. CPS-11 exhibits a wider activity spectrum and higher potency against MM (multiple myeloma) cell lines.

CPS-11 abrogates ability of bone marrow stromal cells (BMSCs) to induce proliferation of MM cells, confirming its ability to target tumor cells in the bone marrow microenvironment[1].CPS-11 (0-200 μM, 0 or 4 h) shows virtually no effect on activation of p38 and only slight, transient activation of ATF2 and

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HSP27[2].CPS-11 (0-100 μM, 24 or 48 h) was no toxic to H157 cells, WT MEFs or the p38α-/- MEFs at doses as high as 100 μM[2].CPS-11 (50 μM, 24 or 48 h) does not induce apoptosis in H157 cells[2].

References:

[1]. Aragon-Ching JB, et al. Thalidomide analogues as anticancer drugs. Recent Pat Anticancer Drug Discov. 2007 Jun;2(2):167-74.
[2]. Warfel NA, et al. Importance of the stress kinase p38alpha in mediating the direct cytotoxic effects of the thalidomide analogue, CPS49, in cancer cells and endothelial cells. Clin Cancer Res. 2006 Jun 1;12(11 Pt 1):3502-9.
[3]. Ge Y, et al. Selective leukemic-cell killing by a novel functional class of thalidomide analogs. Blood. 2006 Dec 15;108(13):4126-35.

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