

EM-12

## Chemical Properties

CAS No. : 26581-81-7  
 Formula: C<sub>13</sub>H<sub>12</sub>N<sub>2</sub>O<sub>3</sub>  
 Molecular Weight: 244.246  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.

## Biological Description

|               |   |
|---------------|---|
| Description   | 2-(2,6-Dioxopiperidin-3-yl)phthalimidine (EM-12 (2-(2,6-Dioxopiperidin-3-yl)phthalimidine)) is a teratogenic Thalidomide analogue that is more active and significantly more stable against hydrolysis than Thalidomide, enhancing 1,2-dimethylhydrazine-induced rat colon adenocarcinomas [1] [2]. |
| Targets(IC50) | Others,TNF  |

## Solubility Information

|            |  |
|------------|--|
| Solubility | DMSO: 11.00 mg/mL (45.04 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 4.0942 mL | 20.4708 mL | 40.9417 mL |
| 5 mM  | 0.8188 mL | 4.0942 mL  | 8.1883 mL  |
| 10 mM | 0.4094 mL | 2.0471 mL  | 4.0942 mL  |
| 50 mM | 0.0819 mL | 0.4094 mL  | 0.8188 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Merker HJ, et al. Embryotoxic effects of thalidomide-derivatives in the non-human primate *Callithrix jacchus*. I. Effects of 3-(1,3-dihydro-1-oxo-2H-isoindol-2-yl)-2,6-dioxopiperidine (EM12) on skeletal development. *Arch Toxicol.* 1988;61(3):165-179.

Gershbein LL. The thalidomide analog, EM 12, enhances 1,2-dimethylhydrazine-induction of rat colon adenocarcinomas. *Cancer Lett.* 1991;60(2):129-133.

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