**PRODUCT:**  
**(±)-Thalidomide**

**ALTERNATE NAME:**  
(RS)-2-(2,6-dioxopiperidin-3-yl)-1H-isooindole-1,3(2H)-dione

**CATALOG #:**  
2020-10, 50

**AMOUNT:**  
10 mg, 50 mg

**STRUCTURE:**

![Thalidomide Structure](image)

**MOLECULAR FORMULA:**  
C<sub>13</sub>H<sub>10</sub>N<sub>2</sub>O<sub>4</sub>

**MOLECULAR WEIGHT:**  
258.23

**CAS NUMBER:**  
50-35-1

**APPEARANCE:**  
White solid

**SOLUBILITY:**  
DMSO (5 mg/ml)

**PURITY:**  
≥98% by TLC

**STORAGE:**  
Store at -20 °C. Protect from light.

**DESCRIPTION:**  
Cell-permeable. A teratogen and sedative-hypnotic with inherent anti-inflammatory properties. A selective inhibitor of tumor necrosis factor α (TNF-α) synthesis. Thalidomide initiates its teratogenic effects by binding to cereblon (CRBN), a thalidomide-binding protein, and inhibiting the associated ubiquitin ligase activity.

**HANDLING:**  
Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**RELATED PRODUCTS:**

- Aclacinomycin A (Cat. No. 2032-5, 25)
- Calpain Inhibitor I, ALLN (Cat. No. 1834-5, 25)
- Calpain Inhibitor II, ALLM (Cat. No. 1834-5, 25)
- Clasto-Lactacyctin β-Lactone (Cat. No. 1710-100)
- E6AP Antibody (Cat. No. 3744-100)
- (-)-Epigallocatechin gallate (Cat. No. 1841-50)
- Isopeptidase T (short form), human recombinant (Cat. No. 4861-25)
- Isopeptidase T (long form), human recombinant (Cat. No. 4862-25)
- Lactacystin (Cat. No. 1709-200)
- MG-115 (Cat. No. 1831-1, 5)
- MG-132 (Cat. No. 1703-5, 25)
- PS-341 (Cat. No. 1846-1,5)
- EZSolution™ MG-132 (Cat. No. 1791-5)
- LDN-57444 (Cat. No. 2016-5, 25)
- MDBN (Cat. No. 2033-5, 25)
- NEDD8-AMC (Cat. No. 4843-25)
- NSC-687852 (Cat. No. 2021-5, 25)
- Proteasome Activity Assay Kit (Cat. No. K245-100)
- Proteasome Substrate, Fluorogenic (Cat. No. 1832-1, 5)
- PYR-41 (Cat. No. 1925-5, 25)
- Suc-Leu-Leu-Val-Tyr-AMC (Cat. No. 1833-5)
- UbcH1, human recombinant (GST-tag) (Cat. No. 4846-100)
- UbcH2, human recombinant (His-tag) (Cat. No. 4848-100)
- UbcH3, human recombinant (His-tag) (Cat. No. 4849-100)
- UbcH5a, human recombinant (His-tag) (Cat. No. 4851-100)
- UbcH5b, human recombinant (His-tag) (Cat. No. 4852-100)
- UbcH5c, human recombinant (His-tag) (Cat. No. 4854-100)
- Ubiquitin Aldehyde (Cat. No. 4845-50)
- Ubiquitin, human recombinant (Cat. No. 4841-100,1000)
- Ubiquitin AMC (Cat. No. 4842-25)
- UCH-L1,human recombinant (GST-tag) (Cat. No. 4855-50)
- USP7 Antibody (Cat. No. 3737-100)
- USP-14 Inhibitor IU1 (Cat. No. 1845-5, 25)
- WP-1130 (Cat. No. 2014-5, 25)

**USAGE:**  
*FOR RESEARCH CH USE ONLY! Not to be used in humans*