Wortmannin, *Penicillium funiculosum*

**ALTERNATE NAME:** SL-2052  
**CATALOG #:** 1670-1  
**AMOUNT:** 1 mg  
**LOT #:**

![Structure of Wortmannin](image)

**MOLECULAR FORMULA:** $C_{23}H_{24}O_8$  
**MOLECULAR WEIGHT:** 428.44  
**CAS:** 19545-26-7  
**APPEARANCE:** Off-white solid  
**Solubility:** DMSO (50 mM) or Ethanol (5 mM)  
**PURITY:** ≥98% by HPLC  
**STORAGE:** Store at -20°C. Protect from air and light  
**DESCRIPTION:** Potent, selective, cell-permeable and irreversible inhibitor of phosphatidylinositol 3-kinase (PI 3-kinase) (IC$_{50}$ = 2.4 nM). Also potently inhibits polo-like kinase 1 (PLK1) (IC$_{50}$ = 5.8 nM).  
**REFERENCES:**  
**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

FOR RESEARCH USE ONLY! Not to be used in humans.

**RELATED PRODUCTS:**  
- Apoptosis Detection Kits & Reagents  
  - Annexin V Kits & Bulk Reagents  
  - Caspase Assay Kits & Reagents  
  - Mitochondrial Apoptosis Kits & Reagents  
  - Nuclear Apoptosis Kits & Reagents  
  - Apoptosis Inducers and Set  
  - Apoptosis siRNA Vectors  
- Cell Fractionation System  
  - Mitochondria/Cytosol Fractionation Kit  
  - Nuclear/Cytosol Fractionation Kit  
  - Membrane Protein Extraction Kit  
  - Cytosol/Particulate Rapid Separation Kit  
  - Mammalian Cell Extraction Kit  
  - FractionPREP Fractionation System  
- Cell Proliferation & Senescence  
  - Quick Cell Proliferation Assay Kit  
  - Senescence Detection Kit  
  - High Throughput Apoptosis/Cell Viability Assay Kits  
  - LDH-Cytotoxicity Assay Kit  
  - Bioluminescence Cytotoxicity Assay Kit  
  - Live/Dead Cell Staining Kit  
- Cell Damage & Repair  
  - HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits  
  - HAT Colorimetric Assay Kit & Reagents  
  - DNA Damage Quantification Kit  
  - Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits  
- Signal Transduction  
  - cAMP & cGMP Assay Kits  
  - Akt & JNK Activity Assay Kits  
  - Beta-Secretase Activity Assay Kit  
- Adipocyte & Lipid Transfer  
  - Recombinant Adiponectin, Survivin, & Leptin  
  - CETP Activity Assay & Drug Discovery Kits  
  - PLTP Activity Assay & Drug Discovery Kits  
  - Total Cholesterol Quantification Kit  
- Molecular Biology & Reporter Assays  
  - siRNA Vectors  
  - Cloning Insert Quick Screening Kit  
  - Mitochondrial & Genomic DNA Isolation Kits  
  - 5 Minutes DNA Ligation Kit  
  - 20 Minutes Gel Staining/Destaining Kit  
  - β-Galactosidase Staining Kit & Luciferase Reporter Assay Kit  
- Growth Factors and Cytokines  
  - Monoclonal and Polyclonal Antibodies