Cambinol

**ALTERNATE NAME:** 5-[(2-hydroxy-5,8-dihydrornaphthalen-1-yl)methyl]-6-phenyl-2-thioxo-2,3-dihydropyrimidin-4(1H)-one; NSC-112546

**CATALOG #:** 1653-10

**AMOUNT:** 10 mg

**LOT #:** 

**STRUCTURE:**

![Chemical Structure]

**MOLECULAR FORMULA:** C_{21}H_{16}N_{2}O_{2}S

**MOLECULAR WEIGHT:** 360.43

**CAS NUMBER:** 14513-15-6

**APPEARANCE:** White solid

**SOLUBILITY:** DMSO (~10 mg/ml)

**PURITY:** ≥95% by HPLC

**STORAGE:** Store at +4°C. Protect from light.

**DESCRIPTION:** An inhibitor of NAD-dependent deacetylase activity of human SIRT1 (IC_{50} = 56 µM) and SIRT2 (IC_{50} = 59 µM). Acts as an antitumor agent. Treatment of BCL6-expressing Burkitt lymphoma cells with Cambinol induces apoptosis accompanied by hyperacetylation of BCL6 and p53.

**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