

## PAC-1

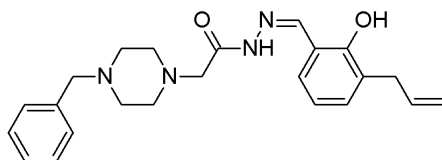
**ALTERNATE NAME:** 2-[[2-Hydroxy-3-(2-propen-1-yl)phenyl]methylene]hydrazide 4-(phenylmethyl)-1-piperazineacetic acid

**CATALOG #:** 1654-10

**AMOUNT:** 10 mg

**LOT #:** \_\_\_\_\_

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>23</sub>H<sub>28</sub>N<sub>4</sub>O<sub>2</sub>

**MOLECULAR WEIGHT:** 392.49

**CAS NUMBER:** 315183-21-2

**APPEARANCE:** White solid

**SOLUBILITY:** DMSO

**PURITY:** ≥95% by HPLC

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

**DESCRIPTION:** Procaspase-activating compound 1 (PAC-1) directly activates procaspase-3 to caspase-3, a transformation that allows induction of apoptosis even in cells that have defective apoptotic machinery. In cancer cells, PAC-1 had an IC<sub>50</sub> value of 3 nM for induction of cell death, whereas in cells from adjacent normal tissue had IC<sub>50</sub> values of 3.2-8.5 μM.

**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