

PRODUCT: Akt Inhibitor

CATALOG #:	1701-1
AMOUNT:	1 mg
LOT #:	_____
CHEMICAL NAME:	1L-6-Hydroxymethyl- <i>chiro</i> -inositol2-[(R)-2-O-methyl-3-O-octadecylcarbonate]
MOLECULAR FORMULA:	C ₃₀ H ₅₈ O ₁₀
MOLECULAR WEIGHT:	578.8
PURITY:	≥98%
APPEARANCE:	White to off-white powder
SOLUBILITY:	Soluble in DMSO
STORAGE CONDITIONS:	-20°C.

DESCRIPTION:

Potent inhibitor of Akt (PKB) (IC₅₀ = 2 μM). Weak inhibitor of phosphatidylinositol 3-kinase (PI3-K) (IC₅₀ = 83 μM). Has been shown to inhibit the growth of the following cancer cell lines: HeLa (IC₅₀ = 2.5 μM), HT-29 (IC₅₀ = 10 μM), MCF-7 (IC₅₀ = 1.2 μM), and PC-3 (IC₅₀ = 2.0 μM).

REFERENCE: Y. Hu, *et al.* (2000) *J. Med. Chem.* 43:3045.

For research use only. Not to be used in human.

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