

PRODUCT: Rapamycin

CATALOG #:	1568-5 5 mg 1568-50 50 mg
LOT #:	_____
MOLECULAR FORMULA:	C ₅₁ H ₇₉ NO ₁₃
MOLECULAR WEIGHT:	914.19
CAS NUMBER:	53123-88-9
PURITY:	≥99%
APPEARANCE:	White to off-white powder
SOLUBILITY:	Soluble in DMSO or ethanol
MELTING POINT:	173-187°C
LOSS ON DRYING:	≤0.5%
HEAVY METALS:	<20 ppm
CIS-ISOMER:	<5%
STORAGE CONDITIONS:	-20°C in the dark. Do not expose to sunlight or fluorescent lights for extended periods.
SHELF LIFE:	Stable for at least 5 years as supplied form under the proper storage conditions.
BACKGROUND:	Immunosuppressant. Selectively blocks signaling that leads to p70 S6 kinase activation (IC ₅₀ = 50 pM). Inhibits lymphokine-induced cell proliferation at the G1 phase. Induce apoptosis in a murine B cell line. Rapamycin has been used <i>in vivo</i> studies by <i>i.p.</i> , <i>i.m.</i> , and <i>i.v.</i> administrations..
CAUTION:	Do not ingest, swallow, or inhale. Do not get in eyes or on skin. Care should be taken to prevent contact through all routes of exposure.
RESEARCH USE:	For Research Use Only! Not to be used in humans.

FEATURED PRODUCTS:

Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers & Inhibitors
- 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
- 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

Growth Factors and Cytokines (many)

Polyclonal and Monoclonal Antibodies