

## PRODUCT: Cycloheximide

CATALOG #: 1041-1G

AMOUNT: 1 g

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

CAS NO: 66-81-9

### STORAGE CONDITIONS:

Store powder at room temperature for up to 1 year. Store solution at -20°C for up to 3 months. Rapidly decomposed in alkaline conditions.

MOLECULAR WEIGHT: 281.3

MOLECULAR FORMULA: C<sub>15</sub>H<sub>23</sub>NO<sub>4</sub>

PURITY: ≥95%

### DESCRIPTION:

A very active antibiotic against many yeasts and fungi. Inhibits protein synthesis in eukaryotes (but not in prokaryotes) by interfering with the translocation step. It inhibits chain initiation as well as chain elongation by acting on the 60S subunit of the eukaryote ribosome, interacting directly with enzyme translocase. Cycloheximide is used as an inhibitor to study cell-free protein biosynthesis in eukaryotes and also used to block ribosome-dependent *in vivo* polypeptide synthesis. It induces apoptosis in a variety of cells (1,2), but can also delay (3) or inhibit (4) apoptosis by other agents.

### REFERENCES:

1. Grand, R.J., *et al.* (1995) *Exp. Cell Res.* **218**:439.
2. Lotem, J. and L. Sachs. (1995) *Cell Growth Diff.* **6**:647.
3. Chow, S.C., *et al.* (1995) *Exp. Cell Res.* **216**:149.
4. Alten, J., *et al.* (1995) *Cell Immunol.* **161**:98.

**FOR RESEARCH USE ONLY! Not to be used in human.**

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### 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