

PRODUCT: Actinomycin D

CATALOG #:	1036-5MG
AMOUNT:	5 mg
LOT #:	_____
CAS NUMBER:	50-76-0
PHYSICAL APPEARANCE:	Red-orange solid
MOLECULAR FORMULA:	C ₆₂ H ₈₆ N ₁₂ O ₁₆
MOLECULAR WEIGHT:	1255.5
PURITY:	>98% by TLC
SOLUBILITY:	Soluble in DMSO (20 mg/ml)
STORAGE CONDITIONS:	Store powder at -20°C for up to one year. Store solutions at -20°C for up to 3 months.

APPLICATION NOTES:

An antineoplastic antibiotic. Inhibits DNA-primed RNA polymerase by complexing with DNA via deoxyguanosine residues. A DNA-intercalator with growth inhibitory activity against certain leukemias and sarcomas. At higher concentrations, DNA polymerase is inhibited. Inhibits cell growth and colony formation in synchronized HeLa cells. A potent inducer of apoptosis in many cell lines (1).

REFERENCES:

1. Verhaegen, S., *et al.* (1995) *Biochem. Pharmacol.* **50**:1021-1029.

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