

**PRODUCT: Doxorubicin.HCl**

|                             |  |
|-----------------------------|--|
| <b>CATALOG #:</b>           | 1527-5   |
| <b>AMOUNT:</b>              | 5 mg   |
| <b>LOT #:</b>               | _____  |
| <b>CAS NUMBER:</b>          | 25316-40-9   |
| <b>PHYSICAL APPEARANCE:</b> | Orange-Red Power (m.p. 216°C)                            |
| <b>MOLECULAR FORMULA:</b>   | C <sub>27</sub> H <sub>29</sub> NO <sub>11</sub> HCl     |
| <b>MOLECULAR WEIGHT:</b>    | 543.5 . 36.5   |
| <b>PURITY:</b>              | >98% by TLC  |
| <b>SOLUBILITY:</b>          | Soluble in water   |
| <b>STORAGE CONDITIONS:</b>  | Store at +4°C. Protect it from light. Stable for 1 year. |

**DESCRIPTION:**

Anti-tumor antibiotic. Inhibitor of Reverse transcriptase and RNA Polymerase. Immunosuppressive agent. Highly effective myotoxin that inhibits topoisomerase II. Binds to Nucleic acids, presumably by specific intercalation into the DNA double helix, thereby inhibiting nucleic acid synthesis. Induces apoptosis.

**CAUTION:** Very toxic, may cause cancer!

**REFERENCES:**

1. Skladanowski A. & Konopa J. (1993) Biochem. Pharmacol. 46: 375-383.

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

**RELATED PRODUCTS:**

## Apoptosis Detection Kits &amp; 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 &amp; 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 &amp; 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 &amp; Lipid Transfer

- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit

## Molecular Biology &amp; 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