

**PRODUCT: G418 · Sulfate (Geneticin)**

**CATALOG #:** 1557-1000

**AMOUNT:** 1 gram

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

**MOLECULAR FORMULA:**  $C_{20}H_{40}N_4O_{10} \cdot 2 H_2SO_4$

**MOLECULAR WEIGHT:** 496.6 · 196.1

**CAS No.** 108321-42-2

**PURITY:**  $\geq 98\%$

**APPEARANCE:** White to off white powder

**SOLUBILITY:** Soluble in water

**STORAGE CONDITIONS:** -20°C.

**APPLICATION:**

The effective killing concentration of this antibiotic will vary as to the cell type, media, growth conditions, and the cells metabolic rate and position in the cell cycle. Effective concentrations range from 100 µg/ml up to 5 mg/ml. When using G418 in a new cell system, a full dose curve is recommended.

**CAUTION:** Toxic. Possible teratogen, mutagen and tumorigen. Avoid contact by all modes of exposure.

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

**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
- $\beta$ -Galactosidase Staining Kit & Luciferase Reporter Assay Kit

## Growth Factors and Cytokines

## Monoclonal and Polyclonal Antibodies