

Recombinant Human Activin A

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| CATALOG #: | 4681-5 |
| AMOUNT: | 5 µg |
| LOT #: | _____ |
| SOURCE: | <i>High-5 Insect cells</i> |
| PURITY: | >95% by SDS-PAGE and HPLC analyses Endotoxin level is <0.1 ng per µg (1EU/µg). |
| FORM: | Sterile filtered and lyophilized from 50 mM Citric acid, pH 3.0 |

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water. Reconstitute in water to a concentration of 50 µg/ml (e.g., 5 µg/100 µl). This will yield a solution of 10 mM Citric acid, pH 3.0. This solution can then be stored at 4°C for 1 month or -20°C for future use. It is recommended that further dilutions be made in PBS containing 2 mg/ml BSA and stored at -20°C.

STORAGE CONDITIONS:

The lyophilized protein is best-stored desiccated below 0°C. Reconstituted Activin A should be stored in working aliquots at -20°C.

DESCRIPTION:

Activin A is a TGF-beta family member that exhibits a wide range of biological activities including regulation of cellular proliferation and differentiation, and promotion of neuronal survival. Elevated levels of Activin A in human colorectal tumors and in post-menopausal woman have been implicated in colorectal and breast cancers, respectively. The biological activities of Activin A can be neutralized by inhibins and by the diffusible TGF-beta antagonist, Follistatin. Human Activin A is a 26 kDa disulfide-linked homodimer of two beta A chains, each containing 116 amino acid residues.

BIOLOGICAL ACTIVITY:

The ED₅₀ as determined by the cytolysis of murine MPC-11 cells is ≤2 ng/ml, corresponding to a specific activity of 5 x 10⁵ units/mg.

USAGE: For Research Use Only. Not for use in humans.

RELATED PRODUCTS:

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

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

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- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione Fluorometric & Colorimetric Assay Kits
- Nitric Oxide Fluorometric & Colorimetric Assay Kits

Signal Transduction

- Camp & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

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

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- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
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