

Recombinant Rat IGF-I

CATALOG #: 4121-20 20 µg
4121-100 100 µg
4121-1000 1 mg

LOT #: _____

SOURCE: *E. coli*

PURITY: >95% by SDS-PAGE and HPLC analyses
Endotoxin level is <0.1 ng per µg of IGF-I.

MOL. WEIGHT: 7.69 kDa

FORMULATION: Lyophilized without additives

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. This solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or –20°C for future use.

STORAGE CONDITIONS:

The lyophilized IGF-I is best-stored desiccated below 0°C. Reconstituted IGF-I should be stored at working aliquots at -20°C.

DESCRIPTION:

IGF-I (Insulin-like Growth Factor-I) is a polypeptide growth factor that stimulates the proliferation of a wide range of cell types including muscle, bone, and cartilage tissue. Rat IGF-I is a 7.69 kDa protein containing 70 amino acid residues (plus an additional 21 aa as N-terminal His-tag).

BIOLOGICAL ACTIVITY:

The ED₅₀ was determined by two methods: 1) By stimulation of protein synthesis in rat L6 myoblasts, the ED₅₀ was found to be <30 ng/ml; 2) By Type I IGF receptor binding assay, the ED₅₀ was found to be < 10 ng/ml.

NOTE: For Research Use Only! Not to be used in humans.

RELATED PRODUCTS:

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- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

Cell Fractionation System

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- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

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- Senescence Detection Kit
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- Bioluminescence Cytotoxicity Assay Kit
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