PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Rat Insulin-like Growth Factor-1 (rRtIGF-1)

Catalog Number: PR3007 Source: Escherichia coli. Quantity: 10µg/50µg/1.0mg

Description

Insulin-like growth factor-1 (IGF-1) is the principal hormonal mediator of statural growth. Under normal circumstances, growth hormone (GH) binds to its receptor in the liver, and other tissues, and stimulates the synthesis/secretion of IGF-1. In target tissues, the Type 1 IGF receptor, which is homologous to the insulin receptor, is activated by IGF-1, leading to intracellular signaling which stimulates multiple processes leading to statural growth. The metabolic actions of IGF-1 are in part directed at stimulating the uptake of glucose, fatty acids, and amino acids so that metabolism supports growing tissues.

Molecular Weight:

Approximately 7689 Da, a single non-glycosylated polypeptide chain containing 70 amino acids.

Purity:

>95% by SDS-PAGE and HPLC analyses.

Biological Activity:

Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using FDC-P1 cells is less than 2.0 ng/ml, corresponding to a specific activity of $\geq 5 \times 105$ units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Tel: 6123263284

Lyophilized from a 0.2mm filtered concentrated solution in 20mM PBS, pH 7.0.

AA Sequence:

GPETLCGAELVDALQFVCGPRGFYFNK PTGYGSSIRRAPQTGIVDECCFRSCDLR RLEMYCAPLKPTKSA

Endotoxin:

Less than 1EU/mg of rRtIGF-1 as determined by LAL method.

Reconstitution:

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at <-20°C. Further dilutions should be made in appropriate buffered solutions.

Storage:

This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

Usage:

Tel: 0086-025-86371664

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MADE IN CHINA

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