

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Rat Insulinlike growth factor I (rRtIGF-1)

Catalog Number: PR3006

Source: Escherichia coli.

Quantity: 10µg/50µg/1.0mg

Description

Insulinlike growth factor I, also known as somatomedin C, is the dominant effector of growth hormone and is structurally homologous to proinsulin. It shares 61% aa sequence identity with mature rat IGF-II. Circulating IGF-I is produced by hepatocytes, while local IGF-I is produced by many other tissues in which it has paracrine effects. IGF-I induces the proliferation, migration, and differentiation of a wide variety of cell types during development and postnatally.

Molecular Weight:

Approximately 7.7 kDa, a single non-glycosylated polypeptide chain containing 70 amino acid residues.

Purity:

>97% by SDS-PAGE and HPLC analyses.

Biological Activity:

Measured in a serum free cell proliferation assay using MCF7 human breast adenocarcinoma cells.

The ED50 for this effect is typically 0.6-3 ng/mL.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a 0.2mm filtered concentrated solution in PBS, pH 7.4.

AA Sequence:

G P E T L C G A E L V D A L Q F V C G P R G F Y F N K
P T G Y G S S I R R A P Q T G I V D E C C F R S C D L R
R L E M Y C A P L K P T K S A

Endotoxin:

Less than 1EU/µg 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:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE. Made in China

MADE IN CHINA

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