PRODUCT DATA SHEET

Bioworld Technology,Inc.

Recombinant IGF-I (N-Met), Human

Catalog Number: BK0083-50μg   Source: Escherichia coli.   Quantity: 50μg

Description:

Insulin-like growth factor I (IGF-I) also known as So-matamedin C is a hormone similar in molecular structure to insulin. Human IGF-I has two isoforms (IGF-IA and IGF-IB) which are differentially expressed by various tissues. Mature human IGF-I shares 94% and 96% aa sequence identity with mouse and rat IGF-I, respectively. Both IGF-I and IGF-II (another ligand of IGF) can signal through the IGF-I receptor (IGFIR), but only IGF-II can bind the IGF-II receptor (IGFIIR/ Mannose-6-phosphate receptor). IGF-I plays an important role in childhood growth and continues to have anabolic effects in adults. Recombinant Human IGF-I(N-Met) produced in E.coli is a polypeptide chain containing 71 amino acids. A fully biologically active molecule, rhIGF-I (N-Met) has a molecular mass of 7.8 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Molecular Weight:

7.8 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE.

Biological Activity:

ED50 < 5 ng/ml, measured by a cell proliferation assay using FDC-P1 cells, corresponding to a specific activity of > 2.0×10^{5} units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

MGPETLCGAELVDALQFVCG-DRGFYFNKPTGYGSSSRRAPQTGIVDEC-CFRSCDLRRLEMYCAPLKPAKSA

Endotoxin:

< 0.2 EU/μg, determined by LAL method.

Reconstitution:

Reconstituted in ddH2O or PBS at 100 μg/ml.

Storage:

Lyophilized recombinant Human IGF-I(N-Met) remains stable up to 6 months at -80 ℃ from date of receipt. Upon reconstitution, Human IGF-I should be stable up to 1 week at 4 ℃ or up to 3 months at -20 ℃.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.