

IGF1 N15 Human

Description:IGF1 N15 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 70 amino acids and having a molecular mass of 7.73kDa. The IGF1 N15 is purified by proprietary chromatographic techniques.

Catalog #:CYPS-135

For research use only.

Synonyms:Somatomedin C, IGF-I, IGFI, IGF1, IGF-IA, Mechano growth factor, MGF.

Source:Escherichia Coli.

Physical Appearance:Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence:GPETLCGAEL VDALQFVCGD RGFYFNKPTG YGSSRRAPQ
TGIVDECCFR SCDLRRLEMY CAPLKPAKSA

Purity:Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Formulation:

IGF1 N15 protein was lyophilized from a 0.2

Stability:

Lyophilized IGF1 N15 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IGF1 N15 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized IGF1 N15 in sterile 18M-cm H2O not less than 100

Introduction:

The somatomedins, or insulin-like growth factors (IGFs), comprise a family of peptides that play important roles in mammalian growth and development. IGF1 mediates many of the growth-promoting effects of growth hormone (GH; MIM 139250). Early studies showed that growth hormone did not directly stimulate the incorporation of sulfate into cartilage, but rather acted through a serum factor, termed 'sulfation factor,' which later became known as 'somatomedin' (Daughaday et al., 1972). Three main somatomedins have been characterized: somatomedin C (IGF1), somatomedin A (IGF2; MIM 147470), and somatomedin B (MIM 193190) (Rotwein, 1986; Rosenfeld, 2003).

Biological Activity:

Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using murine BALB/C 3T3 cells is less than 1.0 ng/ml, corresponding to a specific activity of 1

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