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## Insulin Like Growth Factor-1 N15 Labeled, human recombinant (rHuIGF-1N15)

**Catalog No:** 97478  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** Somatomedin C, IGF-I, IGFI, IGF1, IGF-IA, Mechano growth factor, MGF

### Background

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).

### 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 7.74 kDa. IGF1 N15 is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

IGF1 N15 protein was lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.2.

### Solubility

It is recommended to reconstitute the lyophilized IGF1 N15 in sterile 18 MΩ-cm H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

### 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.

### Purity

Greater than 97.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

### Amino Acid Sequence

GPETLCGAEL VDALQFVCGD RGFYFNKPTG YGSSRRAPQ TGIVDECCFR SCDLRRLEMY CAPLKPAKSA

### Activity

Fully biologically active when compared to standard. The ED<sub>50</sub> as determined by a cell proliferation assay using murine BALB/C 3T3 cells is less than 2 ng/ml, corresponding to a specific activity of > 5.0 × 10<sup>5</sup> units/mg.



#### Usage

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