

# rec. Somatomedin C

## rHu IGF-I

Product	Cat#	Package size
rec. Somatomedin C - rHu IGF-I	C6032.0100	100µg
rec. Somatomedin C - rHu IGF-I	C6032.0500	500µg
rec. Somatomedin C - rHu IGF-I	C6032.1000	1mg

**Synonyms:** Somatomedin C, IGF-I, IGFI, IGF1, IGF-IA MGF.

### Product description

The somatomedins, IGFs, comprise a family of peptides that play important roles in mammalian growth and development. IGF1 mediates many of the growth-promoting effects of GH. Early studies showed that GH 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. Three main somatomedins have been characterized: somatomedin C (IGF1), somatomedin A (IGF2; MIM 147470), and somatomedin B.

Recombinant human Somatomedin C (rHu IGF-I) is produced in *E.Coli* as a non-glycosylated polypeptide of 70 amino acids and a total molecular mass of 7.6kDa.

**Source:** *E. coli*

### Biological activity

The biological activity was determined by the cell proliferation assay using serum free human MCF-7 cells in <2ng/mL, corresponding to a Specific Activity of >5.0 x 10E5IU/mg.

**Purity:** >95% determined by SDS-PAGE

### Amino acid sequence:

GPETLCGAEL YDALQFVCGD RGFYFNKPTG YGSSRRAPQ TGIVDECCFR SCDLRRLEMY CAPLKPAKSA.

### Formulation

The protein was lyophilized from a concentrated solution in PBS, pH7.0.

### Stability

Lyophilized human IGF1 although stable at room temperature for 3 weeks, should be stored desiccated below -20°C. Upon reconstitution IGF1 should be stored at +2°C to +8°C between 2-7 days and for future use below -20°C.

**Please prevent from repeated freeze-thawing cycles.**

### Reconstitution

We recommend to reconstitute the lyophilised human IGF1 in sterile demineralised water at a concentration of not less than 100µg/mL which can be further diluted to other aqueous solutions.

### Usage

This product is for research/laboratory usage only. It may not be used as drug, agricultural or pesticidal product, food additive or household chemical.