

# Active Recombinant Human IGF1 protein

Cat. No. IGF1-527H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human IGF1 protein was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Form</b>	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.2.
<b>Bio-activity</b>	Assay 1: Fully biologically active when compared to standard. Measured in a serum-free cell proliferation assay using human MCF-7 cells. The ED50 for this effect is 0.3-1.5 ng/ml, corresponding to a specific activity of > 6.7 × 10 <sup>5</sup> U/mg. Assay 2: Fully biologically active when compared to standard. The ED50 as determined by the stimulation of protein synthesis using rat L6 myoblasts is less than 10 ng/ml, corresponding to a specific activity of > 1.0 × 10 <sup>5</sup> U/mg.
<b>Molecular Mass</b>	Approximately 9.1 kDa, a single non-glycosylated polypeptide chain containing 83 amino acids.
<b>AASequence</b>	MFPAMPLSSL FVNGPRTLCLG AELVDALQFV CGDRGFYFNK PTGYGSSRR APQTGIVDEC CFRSCDLRRL EMYCAPLKPA KSA
<b>Endotoxin</b>	Less than 0.01 EU/µg of rHuLR3 IGF-1 as determined by LAL method.
<b>Purity</b>	>98 % by SDS-PAGE analyses. >90 % by RP-HPLC analyses.

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**Storage** Use a manual defrost freezer and avoid repeated freeze-thaw cycles. - 12 months from date of receipt, -20 to -70 °C as supplied. - 1 month, 2 to 8 °C under sterile conditions after reconstitution. - 3 months, -20 to -70 °C under sterile conditions after reconstitution.

**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.

## GENE INFORMATION

**Gene Name** IGF1 insulin-like growth factor 1 (somatomedin C) [ Homo sapiens ]

**Official Symbol** IGF1

**Synonyms** IGF1; insulin-like growth factor 1 (somatomedin C); insulin-like growth factor 1; IGF1A; MGF; IGF-IA; IGF-IB; somatomedin-C; mechano growth factor; insulin-like growth factor I; insulin-like growth factor IA; insulin-like growth factor IB; IGFI; IGF-I;

**Gene ID** 3479

**mRNA Refseq** NM\_000618

**Protein Refseq** NP\_000609

**MIM** 147440

**UniProt ID** P05019

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