

Active Recombinant Human IGF1 protein

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

SPECIFICATION

Product Overview	Recombinant Human IGF1 protein was expressed in E. coli.
Species	Human
Source	E.coli
Form	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.2.
Bio-activity	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 $> 6.7 \times 10^5$ 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 $> 1.0 \times 10^5$ U/mg.
Molecular Mass	Approximately 9.1 kDa, a single non-glycosylated polypeptide chain containing 83 amino acids.
AASequence	MFPAMPLSSL FVNGPRTLCLG AELVDALQFV CGDRGFYFNK PTGYGSSRR APQTGIVDEC CFRSCDLRRL EMYCAPLKPA KSA
Endotoxin	Less than 0.01 EU/µg of rHuLR3 IGF-1 as determined by LAL method.
Purity	>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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SDS-PAGE