

Active GMP Recombinant Human IGF1 protein

Cat. No. IGF1-810HG **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active GMP 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 PBS, pH 7.0.
Bio-activity	Measured in a cell proliferation assay using MCF 7 human breast cancer cells. The specific activity of recombinant human IGF-I/IGF-1 is >1000 IU/mg, which is calibrated against the human IGF-I/IGF-1 WHO International Standard (NIBSC code: 91/554).
Molecular Mass	Approximately 7.6 kDa, a single non-glycosylated polypeptide chain containing 70 amino acids.
AASequence	GPETLCGAEL VDALQFVCGD RGFYFNKPTG YGSSSRRAPQ TGIVDECCFR SCDLRRLEMY CAPLKPAKSA
Endotoxin	Less than 0.01 EU/g of rHuIGF-1 GMP as determined by LAL method.
Purity	> 98 % by SDS-PAGE and HPLC analyses.
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

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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

SDS-PAGE

HPLC

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