

Recombinant Human IGF1 Protein

Cat. No. IGF1-036H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Insulin-like growth factor 1 (rhIGF-I), Gly49-Ala118 (Accession # P05019) was expressed in human HEK293 cells.
Species	Human
Source	HEK293
ProteinLength	49-118 a.a.
Description	The protein encoded by this gene is similar to insulin in function and structure and is a member of a family of proteins involved in mediating growth and development. The encoded protein is processed from a precursor, bound by a specific receptor, and secreted. Defects in this gene are a cause of insulin-like growth factor I deficiency. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate mature protein. [provided by RefSeq, Sep 2015]
Molecular Mass	rhIGF-I was fused two amino acid gly-pro at the N-terminal and has a calculated MW of 7.5 kDa. DTT-reduced protein migrates as 8 kDa polypeptide in SDS-PAGE.
Endotoxin	Less than 1.0 EU endotoxin per g rhIGF-I by the LAL method.
Purity	>95% purity as determined by SDS-PAGE of reduced rhIGF-I.
Notes	Research Use Only. Not for use in diagnostic or therapeutic procedures.

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Storage

No activity loss was observed after storage at 4-8 centigrade for 1 month or -20 centigrade for 1 year in lyophilized state. rhIGF-I should be aliquoted and stored at -8 centigrade centigrade in liquid formulation, for long term storage. Avoid repeated freeze-thaw cycles.

Storage Buffer

Supplied as a 0.22 µ filtered solution in 50mM Tris, 100 mM NaCl, pH 8.0 and delivered as liquid formulation or lyophilized powder. Normally mannitol or trehalose are added as protectants before lyophilization. Reconstitution instruction or specific concentrations are included in the hardcopy of CoA along with the products.

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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