

Active Recombinant Human IGF1 Protein

Cat. No. IGF1-057H Lot. No. (See product label)

SPECIFICATION

Product Overview	The mature recombinant human IGF-1 protein containing 70aa (G49-A118) without tag was expressed in E. coli.
Species	Human
Source	E.coli
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.
Bio-activity	Measured in a serum-free cell proliferation assay using MCF-7 human breast cancer cells. The ED50 for this effect is 0.3-1.5 ng/mL.
Molecular Mass	7.6 kDa
Product-Related Proteins	49-118
Endotoxin	< 0.1 EU/μg of the protein as determined by the LAL method

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Purity	> 95 % as determined by SDS-PAGE
Storage	At -80 centigrade. Avoid repeated freeze-thaw cycles.
Storage Buffer	PBS

GENE INFORMATION

Gene Name	IGF1 insulin like growth factor 1 [Homo sapiens (human)]
Official Symbol	IGF1
Synonyms	IGF1; insulin like growth factor 1; IGF; MGF; IGFI; IGF-I; insulin-like growth factor I; Names; insulin-like growth factor 1 (somatomedin C); insulin-like growth factor IB; mechano growth factor; somatomedin-C
Gene ID	3479
mRNA Refseq	NM_000618
Protein Refseq	NP_000609
MIM	147440
UniProt ID	P05019

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