Active Recombinant Human IGF1 Protein, Tag Free, GMP Grade

Cat. No. IGF1-03H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IGF1 Protein without tag was expressed in Yeast
Species	Human
Source	Yeast
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.
Form	White or off-white lyophilized powder
Bio-activity	≥2×10^5 IU /mg pro. The biological activity is determined by assessing the stimulatory effect of IGF-1 on the human breast cancer cell line MCF-7.
Molecular Mass	7.7 kDa ± 0.8 kDa
Endotoxin	< 0.2 EU/μg
Purity	≥98%(SDS-PAGE)

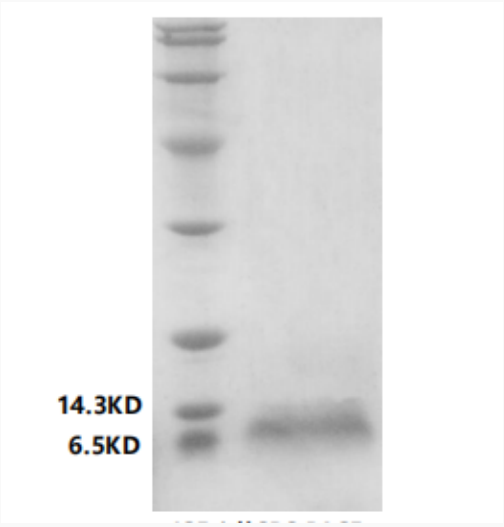
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Storage	Store at -15 to -20 centigrade, stable for up to 24 months.
Reconstitution	It is recommended to briefly centrifuge the tube before opening to settle the powder at the bottom. Then, dissolve the powder in sterilized deionized water to prepare a 100 μg/mL stock solution, which can be stored stably at 2-8 centigrade for one week. When diluting to lower concentrations (not below 10 μg/mL), 0.1% BSA or HSA must be added. To extend storage time, freezing at -70 or -20 centigrade is recommended. Repeated freezing and thawing should be avoided.

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 1; insulin-like growth factor 1 (somatomedin C); insulin-like growth factor I; 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	Q59GC5

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