

Recombinant Human IGF1 protein, His & GST-tagged

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

SPECIFICATION

Product Overview	Recombinant Human IGF1 aa. (Gly49~Ala118) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Gly49~Ala118
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	Freeze-dried powder
Molecular Mass	40kDa as determined by SDS-PAGE reducing conditions
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	> 95%
Characteristic	The isoelectric point is 6.5.

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Applications	SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200µg/mL
Storage buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex

GENE INFORMATION

Gene Name	IGF1 insulin like growth factor 1 [Homo sapiens (human)]
Official Symbol	IGF1
Synonyms	IGF1; insulin like growth factor 1; MGF; IGFI; IGF-I; insulin-like growth factor I; insulin-like growth factor 1 (somatomedin C); insulin-like growth factor IB; mechano growth factor; somatomedin-C
Gene ID	3479
mRNA Refseq	NM_000618.4

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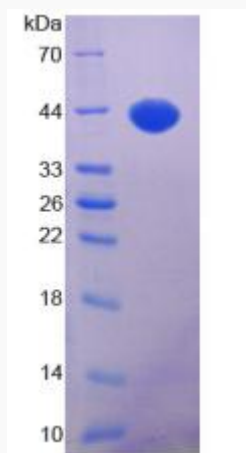
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Protein Refseq NP_000609.1

UniProt ID P05019

SDS-PAGE



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