

Recombinant Human IGFBP3 protein(Gly28-Lys291), His-tagged

Cat. No. IGFBP3-758H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IGFBP3 (NP_000589.2) (Gly28-Lys291) was expressed in HEK293, fused with a polyhistidine tag at the N-terminus.
Species	Human
Source	HEK293
ProteinLength	28-291 a.a.
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	1. Measured by its binding ability in a functional ELISA. Immobilized human IGF2 at 10 µg/mL (100 µl/well) can bind biotinylated Human His-IGFBP3, The EC50 of biotinylated Human His-IGFBP3 is 18 ng/mL. 2. Measured by its binding ability in a functional ELISA. Immobilized human IGF1 at 10 µg/mL (100 µl/well) can bind biotinylated Human His-IGFBP3, The EC50 of biotinylated Human His-IGFBP3 is 24 ng/mL. 3. Measured by its ability to inhibit the biological activity of IGF1 or IGFII on MCF7 human breast adenocarcinoma cells (Karey, K.P. et al. (1988) Cancer Research 48:4083.). The ED50 for this effect is typically 0.05-0.2 µg/mL in the presence of 14 ng/mL human IGFII.
Molecular Mass	The secreted recombinant human IGFBP3 comprises 280 amino acids with a

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predicted molecular mass of 31 kDa. As a result of glycosylation, the apparent molecular mass of rhIGFBP3 is approximately 40-45 kDa in SDS-PAGE under reducing conditions.

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method

Purity > 85 % as determined by SDS-PAGE

Storage Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name IGFBP3 insulin-like growth factor binding protein 3 [Homo sapiens]

Official Symbol IGFBP3

Synonyms IGFBP3; insulin-like growth factor binding protein 3; insulin-like growth factor-binding protein 3; acid stable subunit of the 140 K IGF complex; binding protein 29; binding protein 53; BP 53; growth hormone dependent binding protein; IBP3; IGF binding protein 3; IBP-3; IGFBP-3; IGF-binding protein 3; growth hormone-dependent binding protein; BP-53;

Gene ID 3486

mRNA Refseq NM_000598

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Protein Refseq	NP_000589
MIM	146732
UniProt ID	P17936

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