

# Active Recombinant Human IGFBP3 protein, His-SUMO-tagged

Cat. No. IGFBP3-1237H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Active Recombinant Human IGFBP3 protein(P17936)(135~277 aa), fused with N-terminal His tag and SUMO tag, was expressed in E.coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	135-277 aa
<b>Form</b>	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
<b>Bio-activity</b>	<p>Insulin-like growth factor-binding protein 3, also known as IGFBP3 is one of six IGF binding proteins (IGFBP1 to IGFBP6) that have highly conserved structures and bind the insulin-like growth factors IGF-1 and IGF-2 with high affinity. Within tissues, IGFBP3 can bind IGF1 and IGF2 released by many cell types, and block their access to the IGF-1 receptor (IGF1R), which is activated by both IGFs. IGFBP3 also interacts with cell-surface proteins, affecting cell signaling from outside the cell or after internalization, and also enters the cell nucleus where it binds to nuclear hormone receptors and other ligands. Besides, Fibronectin (FN) has been identified as an interactor of IGFBP3, thus a binding ELISA assay was conducted to detect the interaction of recombinant human IGFBP3 and recombinant human FN. Briefly, IGFBP3 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100ul were then transferred to FN-coated microtiter wells and incubated for 1h at</p>

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37°C. Wells were washed with PBST and incubated for 1h with anti-IGFBP3 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50µ stop solution to the wells and read at 450nm immediately. The binding activity of IGFBP3 and FN was shown, the EC50 was 78 ng/ml.

<b>Molecular Mass</b>	30.0kDa
<b>Endotoxin</b>	<1.0EU per 1µg (determined by the LAL method).
<b>Purity</b>	> 95% as determined by SDS-PAGE.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
<b>Reconstitution</b>	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

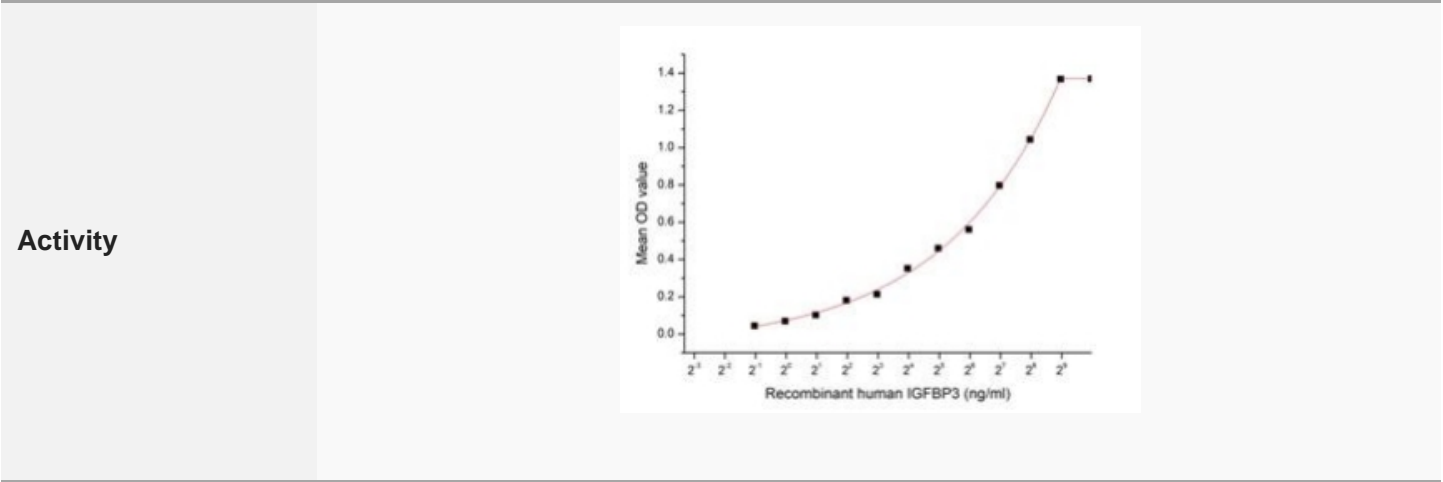
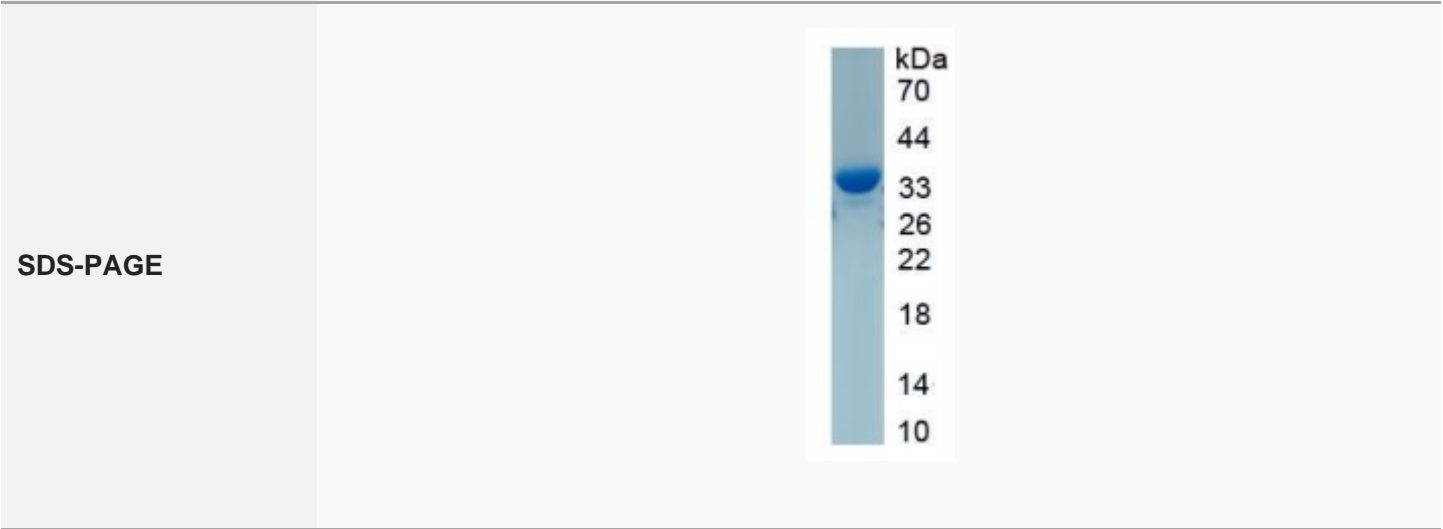
<b>Gene Name</b>	IGFBP3 insulin-like growth factor binding protein 3 [ Homo sapiens ]
<b>Official Symbol</b>	IGFBP3
<b>Synonyms</b>	IGFBP3; insulin-like growth factor binding protein 3; insulin-like growth factor-binding protein 3; acid stable subunit of the 140 K IGF complex; binding protein 29; binding 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;

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<b>Gene ID</b>	3486
<b>mRNA Refseq</b>	NM_000598
<b>Protein Refseq</b>	NP_000589
<b>MIM</b>	146732
<b>UniProt ID</b>	P17936



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