

# Recombinant mouse IGFBP-6 protein

Catalog Number: ATGP3411

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

26-238aa

### UniProt No.

P47880

### NCBI Accession No.

NP\_032370

### Alternative Names

Insulin-like growth factor-binding protein 6, Igfbp6, IGFBP-6, IBP 6, IBP-6, IBP6, IBP6\_HUMAN, IGF binding protein 6, IGF-binding protein 6, IGFBP 6, IGFBP-6, IGFBP6, Insulin like growth factor binding protein 6, Insulin-like growth factor-binding protein 6

## PRODUCT SPECIFICATION

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### Molecular Weight

23.7 kDa (221aa)

### Concentration

0.25mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 40% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Igfbp6, also known as insulin-like growth factor-binding protein 6, binds insulin-like growth factor 1 (IGF-1) and IGF-2 with high affinity and inhibits IGF action in vitro. It is a cysteine-rich protein with conserved cysteine

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residues, which are clustered in the amino- and carboxy-terminal thirds of the molecule. It plays a key role in the regulation of IGF bioavailability, by modulating its molecular size, capillary membrane permeability, target tissue specificity, cell membrane adherence and IGF affinity. Recombinant mouse Igfbp6, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

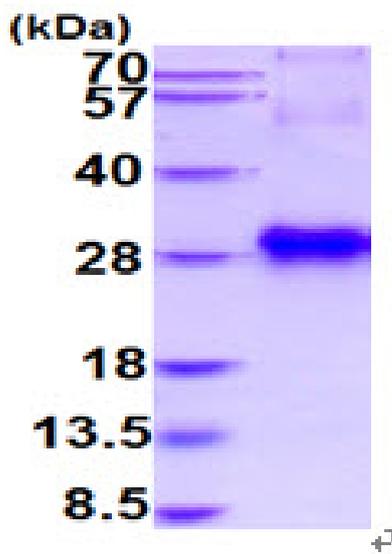
ALAGCPGCGA GMQTGCRGGC VEEEDAGSPA DGCTEAGGCL RREGQPCGVY SPKCAPGLQC QPRENEEAPL  
RALLIGQGRC QRARGPSEET TKESKPQGGG SRSRDTNHRD RQKNPRTSAA PIRPNPVQDS EMGPCRRHLD SVLQQLQTEV  
FRGGARGLYV PNCDLRGFYR KQQCRSSQGN RRGPCWCVDP MGQPLPVSPD GQGSTQCSAR SSGLEHHHHH H

## General References

Shalamanova L., et al. (2008) Mol Cell Endocrinol. 295:18-23.  
Bach LA., et al. (1999) Horm Metab Res. 31:226-234.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)