

# Human IGF2BP2 / IMP2 / p62 Protein (His & GST Tag)

Catalog Number: 11116-H20B



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

IMP-2; IMP2; VICKZ2

### Protein Construction:

A DNA sequence encoding the human IGF2BP2 isoform 1 (Q9Y6M1-2) (Met 1-Lys 599) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.

**Source:** Human

**Expression Host:** Baculovirus-Insect Cells

## QC Testing

**Purity:** > 76 % as determined by SDS-PAGE

### Endotoxin:

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

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Met

### Molecular Mass:

The recombinant human IGF2BP2/GST chimera consists of 836 amino acids and has a calculated molecular mass of 94 kDa. It migrates as an approximately 90 kDa band in SDS-PAGE under reducing conditions.

### Formulation:

Lyophilized from sterile 50mM Tris, 500mM NaCl, 0.5mM PMSF, 5mM Reduced Glutathione, pH 8.0

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

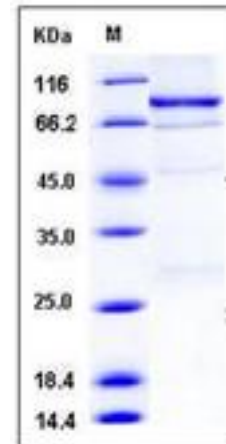
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

Insulin-like growth factor 2 mRNA-binding protein 2 (IGF2BP2) is a member of the IGF-II mRNA-binding protein (IMP) family. IGF2BP2 is a member of a family of mRNA binding proteins that, collectively, have been shown to bind to several different mRNAs in mammalian cells, including one of the mRNAs encoding insulin-like growth factor-2. Insulin-like growth factor 2 mRNA-binding protein 2 (IGF2BP2) is involved in the stimulation of insulin action. IGF2BP2 / IMP2 is expressed in oocytes, granulosa cells of small and growing follicles, Leydig cells, spermatogonia and semen (at protein level). It is also expressed in testicular cancer (at protein level). It is expressed weakly in heart, placenta, skeletal muscle, bone marrow, colon, kidney, salivary glands, testis and pancreas. IGF2BP2 binds to the 5'-UTR of the insulin-like growth factor 2 (IGF2) mRNAs. This binding is isoform-specific. IGF2BP2 may regulate translation of target mRNAs.

## References

1. Omori S, *et al.* (2008) Association of CDKAL1, IGF2BP2, CDKN2A/B, HHEX, SLC30A8, and KCNJ11 with susceptibility to type 2 diabetes in a Japanese population. *Diabetes*. 57(3): 791-5.
2. Grarup N, *et al.* (2007) Studies of association of variants near the HHEX, CDKN2A/B, and IGF2BP2 genes with type 2 diabetes and impaired insulin release in 10,705 Danish subjects: validation and extension of genome-wide association studies. *Diabetes*. 56(12): 3105-11.
3. Wu Y, *et al.* (2008) Common variants in CDKAL1, CDKN2A/B, IGF2BP2, SLC30A8, and HHEX/IDE genes are associated with type 2 diabetes and impaired fasting glucose in a Chinese Han population. *Diabetes*. 57(10): 2834-42.

Manufactured By Sino Biological Inc., FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

For US Customer: Fax: 267-657-0217 • Tel: 215-583-7898

Global Customer: Fax :+86-10-5862-8288 • Tel:+86-400-890-9989 • <http://www.sinobiological.com>