

# Recombinant human FBP2 protein

Catalog Number: ATGP3235

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-339aa

### UniProt No.

O00757

### NCBI Accession No.

NP\_003828

### Alternative Names

Fructose-16-bisphosphatase isozyme 2, Fructose-1,6-bisphosphatase isozyme 2,

## PRODUCT SPECIFICATION

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### Molecular Weight

39.0 kDa (362aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

### Purity

> 90% by SDS-PAGE

### Biological Activity

Specific activity is > 1,500pmol/min/ug obtained by measuring the increase of NADPH in absorbance at 340 nm resulting from the reduction of NADP. One unit will oxidize 1.0pmole of fructose 1,6 diphosphate to fructose 6-phosphate and inorganic phosphate per minute at pH 9.5 at 37C.

### Tag

His-Tag

### Application

SDS-PAGE, Enzyme Activity

### 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

FBP2 belongs to the FB Pase class 1 family. The protein is a gluconeogenesis regulatory enzyme which catalyzes the hydrolysis of fructose 1, 6-bisphosphate to fructose 6-phosphate and inorganic phosphate. Recombinant

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human FBP2 protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

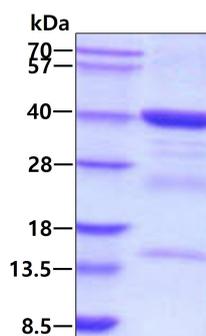
<MGSSHHHHHH SSGLVPRGSH MGS>MTDRSPF ETDMTLTRY VMEKGRQAKG TGELTQLLNS MLTAIKAISS  
AVRKAGLAHL YGIAGSVNVT GDEVKKLDVL SNSLVINMVQ SSYSTCVLVS EENKDAITA KEKRGKYVVC FDPLDGSSNI  
DCLASIGTIF AIYRKTSEDE PSEKDALQCG RNIVAAGYAL YGSATLVALS TGQGVDLFML DPALGEFVLV EKDVKIKKKK  
KIYSLNEGYA KYFDAATTEY VQKKKFPEDG SAPYGARYVG SMVADVHRTL VYGGIFLYPA NQKSPKGKLR LLYECNPVAY  
IIEQAGGLAT TGTQPVLDVK PEAIHQRVPL ILGSPEDVQE YLTCVQKNQA GS

## General References

Gizak A, Maciaszczyk E, et al. (2008). *Proteins*. 72(1):209-16.  
Rakus D, Maciaszczyk E, et al. (2005). *FEBS Lett*. 579(25):5577-81.

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.