Recombinant human FBP2 protein

Catalog Number: ATGP3235

PRODUCT INFORMATION

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

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
Enzyme Activity,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

Description
FBP2 belongs to the FBPase 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

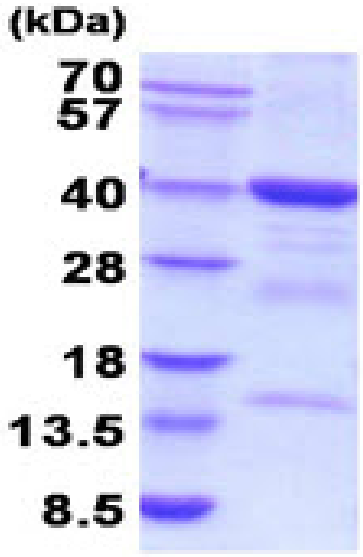
MGSSHHHHHH SSGLVPRGSH MGSMTDRSPF ETDMLTLTRY VMEKGRQAKG TGELTQLLNS MLTAIKAISS AVRKAGLAHL YGIAGSVNVT GDEVKKLDVL SNSLVINMVQ SSYSTCVLVS EENKDAIITA KEKRGKYVVC FDPLDGSSNI DCLASIGTIF AIYRKTSEDE PSEKDALQCG RNIVAAGYAL YGSATLVALS TGQGVDLFML DPALGEFVLV EKDVKIKKKG KIYSLNEGYA KYFDAATTEY VQKKKFPEDG SAPYGARYVG SMVADVHRTL 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



15% SDS-PAGE (3ug)

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