

Active Recombinant Human FBP1 Protein, His-tagged

Cat. No. FBP1-389H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant FBP1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	Fructose-1,6-bisphosphatase 1(FBP1) is a gluconeogenesis regulatory enzyme, catalyzes the hydrolysis of fructose 1,6-bisphosphate to fructose 6-phosphate and inorganic phosphate. Fructose-1,6-diphosphatase deficiency is associated with hypoglycemia and metabolic acidosis.
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 10% glycerol.
Bio-activity	Specific activity is >7,000 pmol/min/ug obtained by measuring the increase of NADPH in absorbance at 340 nm resulting from the reduction of NADP. One unit will oxidize 1.0 pmole of fructose 1,6 diphosphate to fructose 6-phosphate and inorganic phosphate
Molecular Mass	39.0 kDa (358aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHH SSGLVPRGSH MADQAPFDTD VNTLTRFVME EGRKARGTGE LTQLLSLCT AVKAISSAVR KAGIAHLYGI AGSTNVTGDQ VKKLDVLSND LVMNMLKSSF ATCVLVSEED KHAIIVEPEK RGKYVVC FDP LDGSSNIDCL VSVG TIFGIY RKKSTDEPSE KDALQPGRNLVAAGYALYGS ATMLVLAMDC

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GVNCFMLDPA IGEFILVDKD VKIKKKGKIY SLNEGYARDF DPAVTEYIQR
 KKFPDNSAP YGARYVGSMV ADVHRTLVIY GIFLYPANKK SPNGKLRLLY
 ECNPMAYVME KAGGMATTGK EAVLDVIPTD IHQRAPVILG SPDDVLEFLK
 VYEKHSQA

Purity >90% by SDS - PAGE

Storage Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 1mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name FBP1 fructose-1,6-bisphosphatase 1 [Homo sapiens]

Official Symbol FBP1

Synonyms FBP1; fructose-1,6-bisphosphatase 1; FBP; FBPase 1; fructose-bisphosphatase 1; growth-inhibiting protein 17; D-fructose-1,6-bisphosphate 1-phosphohydrolase 1;

Gene ID 2203

mRNA Refseq NM_000507

Protein Refseq NP_000498

MIM 611570

UniProt ID P09467

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Chromosome Location	9q22.3
Pathway	Fructose and mannose metabolism, organism-specific biosystem; Fructose and mannose metabolism, conserved biosystem; Gluconeogenesis, organism-specific biosystem; Gluconeogenesis, oxaloacetate =>fructose-6P, organism-specific biosystem; Gluconeogenesis, oxaloacetate => fructose-6P, conserved biosystem;
Function	AMP binding; fructose 1,6-bisphosphate 1-phosphatase activity; fructose 1,6-bisphosphate 1-phosphatase activity; fructose 1,6-bisphosphate 1-phosphatase activity; hydrolase activity; metal ion binding; monosaccharide binding; monosaccharide binding; phosphoric ester hydrolase activity; protein binding;

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