

Recombinant Human Fructose-1,6-bisphosphatase 1, His-tagged

Cat. No. FBP1-1815H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human FBP1 protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 39.0 kDa (358aa).
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.
Amino Acid Sequence	MGSSHHHHH SSGLVPRGSH MADQAPFDTD VNTLTRFVME EGRKARGTGE LTQLLSLCT AVKAISSAVR KAGIAHLYGI AGSTNVTGDQ VKKLDVLSND LVMNMLKSSF ATCVLVSEED KHAIIVEPEK RGKYVVC FDP LDGSSNIDCL VSVGTFIGIY RKKSTDEPSE KDALQPGRNL VAAGYALYGS ATMLVLAMDC GVNCFMLDPA IGEFILVDKD VKIKKKGKIY SLNEGYARDF DPAVTEYIQR KKFPPDNSAP YGARYVGSMV ADVHRTL VYG GIFLYPANKK SPNGKLRLLY ECNPMAYVME KAGGMATTGK EAVLDVIPTD IHQRAPVILG SPDDVLEFLK VYEKHS AQ
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT 10% glycerol.

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Purity	> 90% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	FBP1 fructose-1,6-bisphosphatase 1 [Homo sapiens]
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; EC 3.1.3.11; OTTHUMP000000021694
Gene ID	2203
mRNA Refseq	NM_000507
Protein Refseq	NP_000498
MIM	611570
UniProt ID	P09467
Chromosome Location	9q22.3
Pathway	Fructose and mannose metabolism; Glycolysis / Gluconeogenesis; Insulin signaling pathway; Metabolic pathways; Pentose phosphate pathway

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Function

fructose 1,6-bisphosphate 1-phosphatase activity; fructose-2,6-bisphosphate 2-phosphatase activity; hydrolase activity; identical protein binding; magnesium ion binding; monosaccharide binding; phosphoric ester hydrolase activity

**fructose-1,6-
bisphosphatase 1**

