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## Product Data Sheet

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Product Name: FBP1 Human  
 Cat. No.: GP21620  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	FBP1; FBP; D-fructose-1;6-bisphosphate 1-phosphohydrolase 1; FBPase 1; Fructose-1;6-bisphosphatase 1.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MADQAPFDTD VNTLTRFVME EGRKARGTGE LTQLLNSLCT AVKAISSAVR KAGIAHLYGI AGSTNVTGDQ VKKLDVLSND LVMNMLKSSF ATCVLVSEED KHAIIVEPEK RGKYVVC FDP LDGSSNIDCL VSVG TIFGIY RKKSTDEPSE KDALQPGRNL VAAGYALYGS ATMLVLAMDC GVNCFMLDPA IGEFILVDKD VKIKKKGKIY SLNEGYARDF DPAVTEYIQR KKFPPDNSAP YGARYVGSMV ADVHRTLVIYG GIFLYPANKK SPNGKLRLLY ECNPMAYVME KAGGMATTGK EAVLDVIPTD IHQRAPVILG SPDDVLEFLK VYEKHS AQ.		
Formulation	The FBP1 protein solution is formulated in 20mM Tris-HCl pH-8, 1mM DTT and 10% glycerol.		

### Introduction

FBP1 is a gluconeogenesis regulatory protein which catalyzes the hydrolysis of fructose 1,6-bisphosphate to fructose 6-phosphate and inorganic phosphate. FBP1 deficiency is associated with hypoglycemia and metabolic acidosis. FBP1 regulates mouse endogenous glucose production. FBP1 coupled with phosphofructokinase (PFK) takes part in the metabolism of pancreatic islet cells.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

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The FBP1 Human recombinant protein is a single, non-glycosylated polypeptide chain produced in E. coli, having a molecular weight of 39kDa and containing 358 amino acids (1-338 a.a.). The FBP1 enzyme is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatography techniques.

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