

FBPase1 Protein, Human, Recombinant (His)

General Information

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| Synonyms: | D-fructose-1;FBP;6-bisphosphate 1-phosphohydrolase 1;FBPase 1;Fructose-1;6-bisphosphatase 1 |
| Protein Construction: | Ala2-Gln338 |
| Species: | Human |
| Expression Host: | HEK293 Cells |
| Accession: | P09467 |
| Molecular Weight: | 35-38 KDa (reducing condition) |
| AA Sequence: | Ala2-Gln338 |

QC Testing

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| Biological Activity: | Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first. |
| Purity: | Greater than 95% as determined by reducing SDS-PAGE. (QC verified) |
| Endotoxin: | < 0.1 ng/μg (1 EU/μg) as determined by LAL test. |
| Formulation: | Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 200 mM NaCl, 1 mM DTT, 1 mM EDTA, 10% Glycerol, pH 8.0. |

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Fructose-1,6-bisphosphatase 1 (FBP1) is a homotetramer protein and belongs to the FBPase class 1 family. It involves in carbohydrate biosynthesis; gluconeogenesis pathway. 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.

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