

FBPase1 Protein, Human, Recombinant (His, E. coli)

General Information

Synonyms:	6-Bisphosphate 1-Phosphohydrolase 1;FBP1;FBP;FBPase 1;D-Fructose-1,6-Bisphosphatase 1;Fructose-1
Protein Construction:	Ala2-Gln338
Species:	Human
Expression Host:	E. coli
Accession:	P09467
Molecular Weight:	38 KDa (reducing condition)
AA Sequence:	Ala2-Gln338

QC Testing

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, 20% 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 (FBPase 1) is a member of the FBPase class 1 family. FBPase 1 is a gluconeogenesis regulatory protein, which catalyzes the hydrolysis of fructose 1,6-bisphosphate to fructose 6-phosphate and inorganic phosphate. FBPase 1 can assume an active R-state, or an inactive T-state. FBPase 1 deficiency is inherited as an autosomal recessive disorder mainly in the liver and causes life-threatening episodes of hypoglycemia and metabolic acidosis in newborn infants or young children. FBPase 1 coupled with phosphofructokinase (PFK) is involved in the metabolism of pancreatic islet cells.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481