

## Recombinant Human Human FBPase1

Catalog No: C139

<b>Description</b>	Recombinant Human Fructose-1,6-Bisphosphatase 1 is produced by our E.coli expression system and the target gene encoding Ala2-Gln338 is expressed with a 6His tag at the C-terminus.
<b>Expression System</b>	E.coli
<b>Alternative name</b>	Fructose-1,6-Bisphosphatase 1; FBPase 1; D-Fructose-1,6-Bisphosphate 1-Phosphohydrolase 1; FBP1; FBP
<b>Accession No.</b>	P09467

<b>Quality Control</b>	Purity: greater than 95% as determined by reducing SDS-PAGE. Endotoxin: less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.
<b>Formulation</b>	Supplied as a 0.2 μm filtered solution of 20mM TrisHCl, 200mM NaCl, 1mM DTT, 1mM EDTA, 20% Glycerol, pH8.0.
<b>Shipping</b>	The product is shipped on dry ice pack. Upon receipt, store it immediately at the temperature listed below.
<b>Storage</b>	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.

<b>Background</b>	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.
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### SDS-PAGE

