

## Recombinant Human FBPase 1/FBP1 Protein (E. coli, His Tag)

Catalog Number: PKSH033276

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

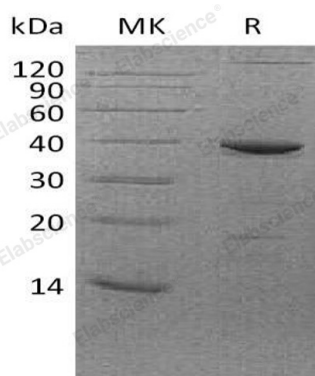
### Description

<b>Species</b>	Human
<b>Source</b>	E.coli-derived Human FBPase 1/FBP1 protein Ala2-Gln338, with an C-terminal His
<b>Calculated MW</b>	37.9 kDa
<b>Observed MW</b>	38 kDa
<b>Accession</b>	P09467
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Concentration</b>	Subject to label value.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	This product is provided as liquid. It is shipped at frozen temperature with blue ice/ gel packs. Upon receipt, store it immediately at < - 20°C.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 200mM NaCl, 1mM DTT, 1mM EDTA, 20% Glycerol, pH 8.0.

### Data



> 95 % as determined by reducing SDS-PAGE.

### 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.

### For Research Use Only

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