Datasheet for ABIN7319228

FBP1 Protein (His tag)

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Overview

Quantity:	50 µg
Target:	FBP1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FBP1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human FBPase 1/FBP1 Protein (E. coli, His Tag)
Sequence:	Ala2-Gln338
Characteristics:	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.
Purity:	> 85 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	FBP1
Alternative Name:	FBPase 1/FBP1 (FBP1 Products)
Background:	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

Target Details

	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. Synonym: Fructose-1,6-Bisphosphatase 1, FBPase 1, D-Fructose-1,6-Bisphosphate 1-Phosphohydrolase 1, FBP1, FBP
Molecular Weight:	37.9 kDa
UniProt:	P09467
Pathways:	Cellular Glucan Metabolic Process, Regulation of Carbohydrate Metabolic Process, Dicarboxylic Acid Transport

Application Details

Restrictions:	For Research Use only

Handling

Format:	Frozen, Liquid
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, 200 mM NaCl, 1 mM DTT, 1 mM EDTA, 20 % Glycerol, pH 8.0.
Storage:	-20 °C
Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.