Datasheet for ABIN1096624

FBP1 Protein (AA 2-338) (His tag)

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Overview

Quantity:	50 µg
Target:	FBP1
Protein Characteristics:	AA 2-338
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 Fructose-1,6-Bisphosphatase 1/FBPase 1 (E. coli, C-6His)
Sequence:	ADQAPFDTDV NTLTRFVMEE GRKARGTGEL TQLLNSLCTA VKAISSAVRK AGIAHLYGIA GSTNVTGDQV KKLDVLSNDL VMNMLKSSFA TCVLVSEEDK HAIIVEPEKR GKYVVCFDPL DGSSNIDCLV SVGTIFGIYR KKSTDEPSEK DALQPGRNLV AAGYALYGSA TMLVLAMDCG VNCFMLDPAI GEFILVDKDV KIKKKGKIYS LNEGYARDFD PAVTEYIQRK KFPPDNSAPY GARYVGSMVA DVHRTLVYGG IFLYPANKKS PNGKLRLLYE CNPMAYVMEK AGGMATTGKE AVLDVIPTDI HQRAPVILGS PDDVLEFLKV YEKHSAQVEH HHHHH
Characteristics:	Recombinant Human Fructose-1,6-Bisphosphatase 1/FBPase 1 is produced with our E. coli expression system. The target protein is expressed with sequence (Ala2-Gln338) of Human FBPase 1.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered

Product Details

Endotoxin Level:	Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test

Target Details

Target:	FBP1
Alternative Name:	Fructose-1,6-Bisphosphatase 1/FBPase 1 (FBP1 Products)
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. Alternative Names: Fructose-1,6-Bisphosphatase 1, FBPase 1, D-Fructose-1,6-Bisphosphate 1-Phosphohydrolase 1, FBP1, FBP
Molecular Weight:	37.89 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:	Liquid
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 μg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
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.
Preservative:	Dithiothreitol (DTT)
Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE

Handling

	which should be handled by trained staff only.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Expiry Date:	6 months