Datasheet for ABIN1691782

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:	Human Cells
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 (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 YEKHSAQVDH HHHHH
Characteristics:	Recombinant Human Fructose-1,6-Bisphosphatase 1/FBPase 1 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Ala2-Gln338) of Human FBPase 1 fused with a polyhistidine tag at the C-terminus.
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)
Sub Type:	Fusionprotein
Background:	Fructose-1,6-bisphosphatase 1(FBP1) is a homotetramer protein and belongs to the FBPase class 1 family. It involves in carbohydrate biosynthesis, gluconeogenesis pathway. FBP1 is a gluconeogenesis regulatory protein which catalyzes the hydrolysis of fructose 1,6-bisphosphate to fructose 6-phosphate and inorganic phosphate. FBP1 deficiency is associated with hypoglycemia and metabolic acidosis. FBP1 regulates mouse endogenous glucose production. FBP1 coupled with phosphofructokinase (PFK) takes part in the metabolism of pancreatic islet cells. Alternative Names: Fructose-1,6-bisphosphatase 1，*FBPase 1*，*D-fructose-1,6-bisphosphate 1-phosphohydrolase 1*，*FBP*
Molecular Weight:	37.8 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,10 % Glycerol, pH 8.0.
Preservative:	Dithiothreitol (DTT)

Handling

Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE 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