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



Image



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Overview

Quantity:	1 mg
Target:	FBP1
Protein Characteristics:	AA 2-338
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FBP1 protein is labelled with His tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys)

Product Details

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 HORAPVILGS PDDVLEFLKV YEKHSAQ

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Human FBP1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

- 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Protein is endotoxin free.

Grade:

Crystallography grade

Target Details

Target: FBP1

Alternative Name: FBP1 (FBP1 Products)

Background: Catalyzes the hydrolysis of fructose 1,6-bisphosphate to fructose 6-phosphate in the presence

Expiry Date:

- Target Details	
	of divalent cations, acting as a rate-limiting enzyme in gluconeogenesis. Plays a role in
	regulating glucose sensing and insulin secretion of pancreatic beta-cells. Appears to modulate
	glycerol gluconeogenesis in liver. Important regulator of appetite and adiposity, increased
	expression of the protein in liver after nutrient excess increases circulating satiety hormones
	and reduces appetite-stimulating neuropeptides and thus seems to provide a feedback
	mechanism to limit weight gain. {ECO:0000269 PubMed:16497803,
	ECO:0000269 PubMed:18375435, ECO:0000269 PubMed:22517657}.
Molecular Weight:	37.7 kDa Including tag.
UniProt:	P09467
Pathways:	Cellular Glucan Metabolic Process, Regulation of Carbohydrate Metabolic Process, Dicarboxylic
	Acid Transport
Application Dataila	
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
	as well. As the protein has not been tested for functional studies yet we cannot offer a
	guarantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be
	insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to
	increase solubility. We will discuss all possible options with you in detail to assure that you
	receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Evniny Data:	Unlimited (if stored properly)

Unlimited (if stored properly)



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process