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Datasheet for ABIN3089593 ATF6 Protein (AA 1-377) (His tag)

1 Image



Overview

Quantity:	1 mg
Target:	ATF6
Protein Characteristics:	AA 1-377
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATF6 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	MGEPAGVAGT MESPFSPGLF HRLDEDWDSA LFAELGYFTD TDELQLEAAN ETYENNFDNL
	DFDLDLMPWE SDIWDINNQI CTVKDIKAEP QPLSPASSSY SVSSPRSVDS YSSTQHVPEE
	LDLSSSSQMS PLSLYGENSN SLSSAEPLKE DKPVTGPRNK TENGLTPKKK IQVNSKPSIQ
	PKPLLLPAAP KTQTNSSVPA KTIIIQTVPT LMPLAKQQPI ISLQPAPTKG QTVLLSQPTV
	VQLQAPGVLP SAQPVLAVAG GVTQLPNHVV NVVPAPSANS PVNGKLSVTK PVLQSTMRNV
	GSDIAVLRRQ QRMIKNRESA CQSRKKKKEY MLGLEARLKA ALSENEQLKK ENGTLKRQLD
	EVVSENQRLK VPSPKRR
	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 ATF6 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to
	ensure crystallization grade.

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	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.
	2. 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
Tannat Data ila	
Target Details	
Target:	ATF6
Alternative Name:	ATF6 (ATF6 Products)

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Target Details

Background:	Transmembrane glycoprotein of the endoplasmic reticulum that functions as a transcription
	activator and initiates the unfolded protein response (UPR) during endoplasmic reticulum
	stress. Cleaved upon ER stress, the N-terminal processed cyclic AMP-dependent transcription
	factor ATF-6 alpha translocates to the nucleus where it activates transcription of genes
	involved in the UPR. Binds DNA on the 5'-CCAC[GA]-3'half of the ER stress response element
	(ERSE) (5'-CCAAT-N(9)-CCAC[GA]-3') and of ERSE II (5'-ATTGG-N-CCACG-3'). Binding to ERSE
	requires binding of NF-Y to ERSE. Could also be involved in activation of transcription by the
	serum response factor. May play a role in foveal development and cone function in the retina.
	{ECO:0000269 PubMed:10564271, ECO:0000269 PubMed:11158310,
	ECO:0000269 PubMed:11779464, ECO:0000269 PubMed:26029869}.
Molecular Weight:	42.1 kDa Including tag.
UniProt:	P18850
Pathways:	ER-Nucleus Signaling, Unfolded Protein Response
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.
Expiry Date:	Unlimited (if stored properly)

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

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