Datasheet for ABIN7552483

ATF6 Protein (AA 1-670) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	ATF6
Protein Characteristics:	AA 1-670
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATF6 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ATF6 Protein expressed in mammalian cells.
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 VPSPKRRVVC VMIVLAFIIL NYGPMSMLEQ DSRRMNPSVS PANQRRHLLG FSAKEAQDTS DGIIQKNSYR YDHSVSNDKA LMVLTEEPLL YIPPPPCQPL INTTESLRLN HELRGWVHRH EVERTKSRRM TNNQQKTRIL QGALEQGSNS QLMAVQYTET TSSISRNSGS ELQVYYASPR SYQDFFEAIR RRGDTFYVVS FRRDHLLLPA TTHNKTTRPK MSIVLPAINI NENVINGQDY EVMMQIDCQV MDTRILHIKS SSVPPYLRDQ QRNQTNTFFG SPPAATEATH VVSTIPESLQ **Sequence without tag. The proposed Purification-Tag is based on experiences**

Product Details

	with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • 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 try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	ATF6
Alternative Name:	ATF6 (ATF6 Products)
Background:	Cyclic AMP-dependent transcription factor ATF-6 alpha (cAMP-dependent transcription factor ATF-6 alpha) (Activating transcription factor 6 alpha) (ATF6-alpha) [Cleaved into: Processed cyclic AMP-dependent transcription factor ATF-6 alpha],FUNCTION: [Cyclic AMP-dependent transcription factor ATF-6 alpha]: Precursor of the transcription factor form (Processed cyclic AMP-dependent transcription factor ATF-6 alpha), which is embedded in the endoplasmic reticulum membrane (PubMed:10564271, PubMed:11158310, PubMed:11779464). Endoplasmic reticulum stress promotes processing of this form, releasing the transcription factor form that translocates into the nucleus, where it activates transcription of genes involved in the unfolded protein response (UPR) (PubMed:10564271, PubMed:11158310,

Target Details

	PubMed:11779464). {ECO:0000269|PubMed:10564271, ECO:0000269|PubMed:11158310, ECO:0000269|PubMed:11779464}., FUNCTION: [Processed cyclic AMP-dependent transcription factor ATF-6 alpha]: Transcription factor that initiates the unfolded protein response (UPR) during endoplasmic reticulum stress by activating transcription of genes involved in the UPR (PubMed:10564271, PubMed:11163209, PubMed:11158310, PubMed:11779464). 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') (PubMed:10564271, PubMed:11158310, PubMed:11779464). Binding to ERSE requires binding of NF-Y to ERSE. Could also be involved in activation of transcription by the serum response factor (PubMed:10564271, PubMed:11158310, PubMed:11779464). May play a role in foveal development and cone function in the retina (PubMed:26029869). {ECO:0000269|PubMed:10564271, ECO:0000269|PubMed:11158310, ECO:0000269|PubMed:11163209, ECO:0000269|PubMed:11779464, ECO:0000269|PubMed:26029869}.
Molecular Weight:	74.6 kDa
UniProt:	P18850
Pathways:	ER-Nucleus Signaling, Unfolded Protein Response

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition 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:	12 months