

Datasheet for ABIN7552438
ATF5 Protein (AA 1-282) (His tag)



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Overview

Quantity:	1 mg
Target:	ATF5
Protein Characteristics:	AA 1-282
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATF5 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ATF5 Protein expressed in mammalian cells.
Sequence:	MSLLATLGLE LDRALLPASG LGWLVLDYGKL PPAPAPLAPY EVLGGALEGG LPVGGEPLAG DGFSDWMTER VDFTALLPLE PPLPPGTLPQ PSPTPPDLEA MASLLKKELE QMEDFFLDAP PLPPSPPPPL PPPPLPPAPS LPLSLPSFDL PQPPVLDTLDD LAIYCRNEA GQEEVGMPPPL PPPQQPPPPS PPQPSRLAPY PHPATTRGDR KQKKRDQNKSAALRYRQRKR AEGEALGEGC QGLEARNREL KERAESVERE IQYVKDLLIE VYKARSQRTR SC Sequence without tag. The proposed Purification-Tag is based on experiences 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:

Product Details

- 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:	ATF5
Alternative Name:	ATF5 (ATF5 Products)
Background:	<p>Cyclic AMP-dependent transcription factor ATF-5 (cAMP-dependent transcription factor ATF-5) (Activating transcription factor 5) (Transcription factor ATFx),FUNCTION: Transcription factor that either stimulates or represses gene transcription through binding of different DNA regulatory elements such as cAMP response element (CRE) (consensus: 5'-GTGACGT[AC][AG]-3'), ATF5-specific response element (ARE) (consensus: 5'-C[CT]TCT[CT]CCTT[AT]-3') but also the amino acid response element (AARE), present in many viral and cellular promoters. Critically involved, often in a cell type-dependent manner, in cell survival, proliferation, and differentiation (PubMed:10373550, PubMed:15358120, PubMed:21212266, PubMed:20654631). Its transcriptional activity is enhanced by CCND3 and slightly inhibited by CDK4 (PubMed:15358120). Important regulator of the cerebral cortex formation, functions in cerebral cortical neuroprogenitor cells to maintain proliferation and to block differentiation into neurons. Must be down-regulated in order for such cells to exit the cycle and differentiate (By similarity). Participates in the pathways by which SHH promotes cerebellar granule neuron progenitor cells proliferation (By similarity). Critical for survival of mature olfactory sensory neurons (OSN),</p>

Target Details

directs expression of OSN-specific genes (By similarity). May be involved in osteogenic differentiation (PubMed:22442021). Promotes cell proliferation and survival by inducing the expression of EGR1 synergistically with ELK1. Once acetylated by EP300, binds to ARE sequences on target genes promoters, such as BCL2 and EGR1 (PubMed:21791614). Plays an anti-apoptotic role through the transcriptional regulation of BCL2, this function seems to be cell type-dependent (By similarity). Cooperates with NR1I3/CAR in the transcriptional activation of CYP2B6 in liver (PubMed:18332083). In hepatic cells, represses CRE-dependent transcription and inhibits proliferation by blocking at G2/M phase (PubMed:22528486, PubMed:18701499). May act as a negative regulator of IL1B transduction pathway in liver (PubMed:24379400). Upon IL1B stimulus, cooperates with NLK to activate the transactivation activity of C/EBP subfamily members (PubMed:25512613). Besides its function of transcription factor, acts as a cofactor of CEBPB to activate CEBPA and promote adipocyte differentiation (PubMed:24216764). Regulates centrosome dynamics in a cell-cycle- and centriole-age-dependent manner. Forms 9-foci symmetrical ring scaffold around the mother centriole to control centrosome function and the interaction between centrioles and pericentriolar material (PubMed:26213385). {ECO:0000250|UniProtKB:O70191, ECO:0000250|UniProtKB:Q6P788, ECO:0000269|PubMed:10373550, ECO:0000269|PubMed:15358120, ECO:0000269|PubMed:18332083, ECO:0000269|PubMed:18701499, ECO:0000269|PubMed:20654631, ECO:0000269|PubMed:21212266, ECO:0000269|PubMed:21791614, ECO:0000269|PubMed:22442021, ECO:0000269|PubMed:22528486, ECO:0000269|PubMed:24216764, ECO:0000269|PubMed:24379400, ECO:0000269|PubMed:25512613, ECO:0000269|PubMed:26213385}.

Molecular Weight: 30.7 kDa

UniProt: [Q9Y2D1](#)

Pathways: [Myometrial Relaxation and Contraction](#)

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