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ATF5 Protein (AA 1-283) (His tag)





Go to Product page

Overview

| Quantity: | 1 mg |
|-------------------------------|--|
| Target: | ATF5 |
| Protein Characteristics: | AA 1-283 |
| Origin: | Mouse |
| Source: | Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This ATF5 protein is labelled with His tag. |
| Application: | ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS) |

| Аррисацоп. | ELISA, Western Biotting (WB), Grystallization (Grys), SDS-PAGE (SDS) |
|------------------|---|
| Product Details | |
| Sequence: | MSLLATLGLE LDRALLPASG LGWLVDYGKL PLAPAPLGPY EVLGGALEGG LPGGGEPLAG DGFSDWMTER VDFTALLPLE APLPPGTLPP PSPAPPDLEA MASLLKKELE QMEDFFLDAP LLPPPSPPPP PPPAAAPSLP LPLPLPTFDL PQPPTLDTLD LLAVYCRSEA GPGDSGLSTL PVPQQPPPLA PLPSPARPAP YPSPASTRGD RKQKKRDQNK SAALRYRQRK RAEGEALEGE CQGLEARNRE LRERAESVER EIQYVKDLLI EVYKARSQRT RST 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. Mouse Atf5 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.
- 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

Target Details

| Target: | ATF5 |
|-------------------|--|
| Alternative Name: | Atf5 (ATF5 Products) |
| Background: | 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. Its transcriptional activity is enhanced by CCND3 and slightly inhibited by CDK4 (By similarity). 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. Participates in the pathways by which SHH promotes cerebellar granule neuron progenitor cells proliferation (PubMed:22095825). Critical for survival of mature olfactory sensory neurons (OSN), directs expression of OSN-specific genes (PubMed:23090999). May be involved in osteogenic differentiation. Promotes cell proliferation and survival by inducing the expression of EGR1 sinergistically with ELK1. Once acetylated by EP300, binds to ARE sequences on target genes promoters, such as BCL2 and EGR1 (By similarity). Plays an antiapoptotic role through the transcriptional regulation of BCL2, this function seems to be cell type-dependent (By similarity) (PubMed:12130540). Cooperates with NR1I3/CAR in the transcritpional activation of CYP2B6 in liver. In hepatic cells, represses CRE-dependent transcription and inhibits proliferation by blocking at G2/M phase. May act as a negative regulator of IL1B transduction pathway in liver. Upon IL1B stimulus, cooperates with NLK to activate the transactivation activity of C/EBP subfamily members. Besides its function of transcription factor, acts as a cofactor of CEBPB to activate CEBPA and promote adipocyte differentiation. 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 (By similarity). {ECO:0000250|UniProtKB:Q6P788, ECO:0000250|UniProtKB:Q9Y2D1, ECO:0000269|PubMed:12130540, ECO:0000269|PubMed:22095825, ECO:0000269|PubMed:23090999}.

Molecular Weight:

31.3 kDa Including tag.

UniProt:

070191

Pathways:

Myometrial Relaxation and Contraction

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 gurantee though.

Application Details

| Comment: | Protein has not been tested for activity yet. In cases in which it is highly likely that the |
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| | 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) |
| | |

Images

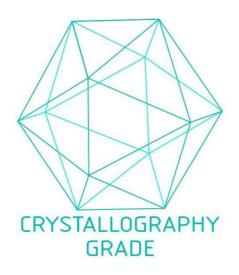


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process