

Datasheet for ABIN7559641  
**ATF7 Protein (AA 1-413) (His tag)**



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## Overview

Quantity:	1 mg
Target:	ATF7
Protein Characteristics:	AA 1-413
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATF7 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat Atf7 Protein expressed in mammalien cells.
Sequence:	MGDDRPFVCS APGCGQRFTN EDHLAVHKHK HEMTLKFGPA RTDSVIIADQ TPTPTRFLKN CEEVGLFNEL ASSFEHEFKK ASDDDEKKGA AGPLDMSLPS TPDIKIKEEE PVEVDSSPPD SPASSPCSP LKEKEVTTKP VVISTPTPTI VRPGSLPLHL GYDPLHPTLP SPTSVITQAP PSNRQIGSPT GSLPLVMHLA NGQTMPMLPG PPVQMPSVIS LARPVSMVPN IPGIPGPPVN NSGSISPSGH PMPSEAKMRL KATLTHQVSS INGGCGMVVG TASTMVTARP EQNQILIQHP DAPSPAQPQV SPAQPTPSTG GRRRRTVDED PDERRQRFLR RNRAAASRCR QKRKLWVSSL EKKAELTSQ NIQLSNEVTL LRNEVAQLKQ LLLAHKDCPV TALQKKTQGY LGK <b>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.</b>
Characteristics:	Key Benefits:

## Product Details

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- 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.

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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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## Target Details

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Target:	ATF7
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Alternative Name:	Atf7 ( <a href="#">ATF7 Products</a> )
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Background:	<p>Cyclic AMP-dependent transcription factor ATF-7 (cAMP-dependent transcription factor ATF-7) (Activating transcription factor 7) (Transcription factor ATF-A),FUNCTION: Stress-responsive chromatin regulator that plays a role in various biological processes including innate immunological memory, adipocyte differentiation or telomerase regulation (PubMed:29490055). In absence of stress, contributes to the formation of heterochromatin and heterochromatin-like structure by recruiting histone H3K9 tri- and di-methyltransferases thus silencing the transcription of target genes such as Htr5b, STAT1 in adipocytes, or genes involved in innate immunity in macrophages and adipocytes (PubMed:19893493, PubMed:31294895, PubMed:30826729). Phosphorylation of ATF7 disrupts interactions with histone methyltransferase and enhances the association with coactivators containing histone acetyltransferase and/or histone demethylase, leading to disruption of the heterochromatin-like structure and subsequently transcriptional activation (PubMed:19893493). In response to TNF-alpha, which is induced by various stresses, phosphorylated ATF7 and telomerase are released from telomeres leading to telomere shortening (PubMed:29490055). Also plays a role in</p>
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## Target Details

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maintaining epithelial regenerative capacity and protecting against cell death during intestinal epithelial damage and repair (PubMed:31958521). {ECO:0000269|PubMed:19893493, ECO:0000269|PubMed:29490055, ECO:0000269|PubMed:30826729, ECO:0000269|PubMed:31294895, ECO:0000269|PubMed:31958521}.

Molecular Weight: 44.6 kDa

UniProt: [Q8R0S1](#)

## Application Details

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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.

Restrictions: For Research Use only

## Handling

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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