

# Recombinant human ATF1 protein

Catalog Number: ATGP1374

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-271aa

### UniProt No.

P18846

### NCBI Accession No.

NP\_005162.1

### Alternative Names

Activating transcription factor 1, EWS-ATF1, FuS/ATF-1, TREB36

## PRODUCT SPECIFICATION

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### Molecular Weight

31.8 kDa (295aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 5mM DTT, 50% glycerol, 0.2M NaCl, 2mM EDTA

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Activating transcription factor 1, also known as ATF1, is a cyclic-AMP dependent transcription factor. ATF1 is expressed in a wide variety of cell types and is capable of dimerizing with CREB. MSK1 and MSK2 protein kinases are required for the stress-induced phosphorylation of transcription factors CREB and ATF1 in primary embryonic fibroblasts. Epidermal growth factor induction of c-jun expression requires ATF1 and MEF2 sites in the c-jun promoter. Recombinant human ATF1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

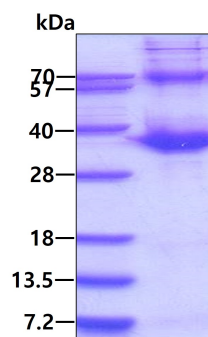
<MGSSHHHHHH SSGLVPRGSH MGSH>MEDSHK STTSETAPQP GSAVQGAHIS HIAQQVSSLS ESEESQDSSD  
SIGSSQKAHG ILARRPSYRK ILKDLSEDT RGRKGDGENS GVSAAVTSMS VPTPIYQTSS GQYIAIAPNG ALQLASPGTD  
GVQGLQTLTM TNSGSTQQGT TILQYAQTSQ GQQILVPSNQ VVVQTASGDM QTYQIRTTPS ATSLPQTVVM TSPVTLTSQT  
TKTDDPQLKR EIRLMKNREA ARECRRKKKE YVKCLENRVA VLENQNKTLI EELKTLKDLY SNKSV

## General References

Lin Y S., et al. (1988) Proc Natl Acad Sci uSA. 85:3396-3400.  
Gupta P., et al. (2002) J Biol Chem. 277:50550-50556.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.