

# Recombinant human ATF4 protein

Catalog Number: ATGP1138

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-351aa

### UniProt No.

P18848

### NCBI Accession No.

NP\_001666

### Alternative Names

Activating transcription factor 4, CREB2, TXREB, CREB-2

## PRODUCT SPECIFICATION

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### Molecular Weight

56.6 kDa (510aa)

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

### Purity

> 90% by SDS-PAGE

### Tag

His-Cam 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 4, also known as ATF4, belongs to a family of DNA-binding proteins that includes the AP-1 family of transcription factors, cAMP-response element binding proteins and CREB-like proteins. ATF4 encodes a transcription factor that was originally identified as a widely expressed mammalian DNA binding protein that could bind a tax-responsive enhancer element in the LTR of HTLV-1. Recombinant human ATF4 protein, fused to His-Calmodulin tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

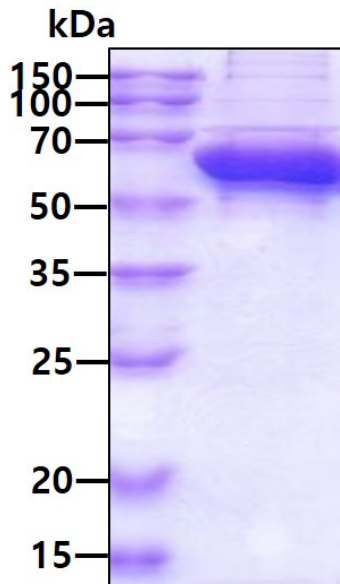
<MHHHHHHMAD QLTEEQIAEF KEAFSLFDKD GDGTITTKEL GTVMRSLGQN PTEAELQDMI NEVDADGNGT IDFPEFLTMM  
ARKMKD TDSE EEIREAFRVF DKDGNGYISA AELRHVMTNL GEKLTDEEVD EMIREADIDG DGQVNYEEFV  
QMMTAKGSH>M TEMSFLSSEV LVGDLMSFPD QSGLGAEESL GLLDDYLEVA KHFKPHGFSS DKAKAGSSEW  
LAVDGLVSPS NNSKEDAFSG TDWMLEKMDL KEFDLDALLG IDDLTTPDD LLTTLDDTCD LFAPLVQETN KQPPQTVNPI  
GHLPESLTKP DQVAPFTFLQ PLPLSPGVLS STPDHSFSLE LGSEVDITEG DRKPDYTAYV AMIPQCIKEE DTPSDNDSGI  
CMSPEYLGS PQHSPSTRGS PNRSPLSPGV LCGSARPKPY DPPGKEMVAA KVKGEKLDKK LKKMEQNKTA ATRYRQKKRA  
EQEALTGECK ELEKKNEALK ERADSLAKEI QYLKDLIEEV RKARGKKRVP

## General References

Lin Y S., et al. (1988) Proc Natl Acad Sci. 85:3396-4000.  
Hoeffler JP., et al. (1988) Science. 242:1430-1433.

## DATA

### SDS-PAGE



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