

# Recombinant human ATF3 protein

Catalog Number: ATGP1127

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-181aa

### UniProt No.

P18847

### NCBI Accession No.

NP\_001665

### Alternative Names

Activating transcription factor 3, ATF3deltaZip3, cAMP dependent transcription factor ATF3, Cyclic AMP dependent transcription factor ATF3, Cyclic AMP-dependent transcription factor ATF-3

## PRODUCT SPECIFICATION

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### Molecular Weight

20.6 kDa (181aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2M urea, 20% glycerol

### Purity

> 90% by SDS-PAGE

### Tag

Non-Tagged

### Application

SDS-PAGE, Denatured

### 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

ATF3 (activating transcription factor 3) is a member of the mammalian activation transcription factor/cAMP responsive element-binding (CREB) protein family of transcription factors. This protein binds the cAMP response element (CRE) (consensus: 5'-GTGACGT[AC][AG]-3'), a sequence present in many viral and cellular promoters. Multiple transcript variants encoding two different isoforms have been found for this gene. The longer isoform represses rather than activates transcription from promoters with ATF binding elements. The shorter isoform

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(deltaZip2) lacks the leucine zipper protein-dimerization motif and does not bind to DNA, and it stimulates transcription, it is presumed, by sequestering inhibitory co-factors away from the promoter.

### Amino acid Sequence

MMLQHPGQVS ASEVSASAIV PCLSPPGSLV FEDFANLTPF VKEELRFAIQ NKHLCHRMSS ALESVTVSDR PLGVSITKAE  
VAPEEDERKK RRRERNKIAA AKCRNKKKEK TECLQKESEK LESVNAELKA QIEELKNEKQ HLIYMLNLHR PTCIVRAQNG  
RTPEDERNLF IQQIKEGTLQ S

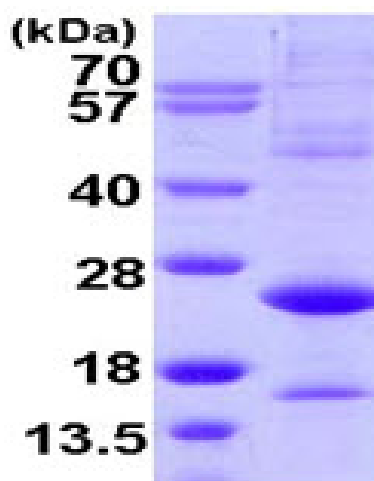
### General References

Lv D., et al. (2011) *luBMB Life*. 63(1):62-9.

Chen BP., et al. (1994) *J Biol Chem* 269 (22): 15819-26.

## DATA

### SDS-PAGE



15% SDS-PAGE (3ug)

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