

Recombinant human ATF3 protein

Catalog Number: ATGP1127

PRODUCT INFORMATION

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

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

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

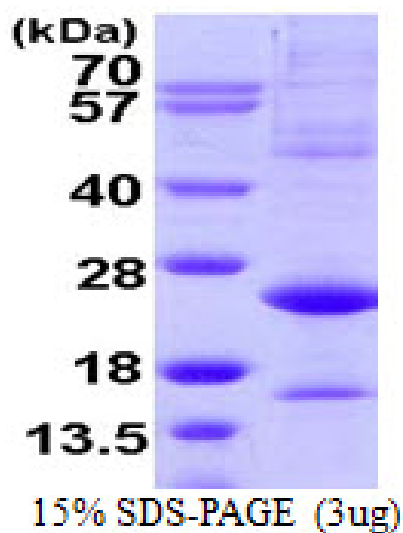
General References

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



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