

Recombinant human ATF4 protein

Catalog Number: ATGP1138

PRODUCT INFORMATION

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

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

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
ARKMKDSTDSE EEIREAFRVF DKDGNGYISA AELRHVMTNL GEKLTDEEVD EMIREADIDG DGQVNYEEFV
QMMTAKGSH>M TEMSFLSSEV LVGDLMSPFD QSGLGAEESL GLLDDYLEVA KHFKPHGFSS DKAKAGSSEW
LAVDGLVSPS NNSKEDAFSG TDWMLEKMDL KEFDLDALLG IDDLETMPDD LLTTLDDTCD LFAPLVQETN KQPPQTVNPI
GHLPESLTKP DQVAPFTFLQ PLPLSPGVLS STPDHSFSLE LGSEVDITEG DRKPDYTAYV AMIPQCIKEE DTPSDNDSGI
CMSPEYLGS PQHSPSTRGS PNRSPLSPGV LCGSARPKPY DPPGEKMVAA KVKGEKLDKK LKKMEQNKTA ATRYRQKKRA
EQEALTGECK ELEKKNEALK ERADSLAKEI QYKDLIEEV 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.

