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

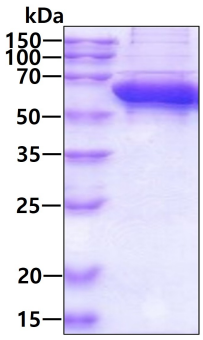
<MHHHHHHMAD QLTEEQIAEF KEAFSLFDKD GDGTITTKEL GTVMRSLGQN PTEAELQDMI NEVDADGNGT IDFPEFLTMM ARKMKDTDSE EEIREAFRVF DKDGNGYISA AELRHVMTNL GEKLTDEEVD EMIREADIDG DGQVNYEEFV QMMTAKGSH>M TEMSFLSSEV LVGDLMSPFD QSGLGAEESL GLLDDYLEVA KHFKPHGFSS DKAKAGSSEW LAVDGLVSPS NNSKEDAFSG TDWMLEKMDL KEFDLDALLG IDDLETMPDD LLTTLDDTCD LFAPLVQETN KQPPQTVNPI GHLPESLTKP DQVAPFTFLQ PLPLSPGVLS STPDHSFSLE LGSEVDITEG DRKPDYTAYV AMIPQCIKEE DTPSDNDSGI CMSPESYLGS PQHSPSTRGS PNRSLPSPGV LCGSARPKPY DPPGEKMVAA 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.