

Recombinant Human ATF4, His Cam-tagged

Cat. No. ATF4-3596H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ATF4 protein, fused to His-Calmodulin tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques (1-351 aa).
Species	Human
Source	E.coli
ProteinLength	1-351 a.a.
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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol
Molecular Weight	56.6 kDa (510aa)
Purity	> 90% by SDS - PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)
Sequences of amino	MHHHHHHMAD QLTEEQIAEF KEAFSLFDKD GDGTITTKEL GTVMRSLGQN

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acids

PTEAELQDMI NEVDADGNGT IDFPEFLTMM ARKMKDTDSE EEIREAFRVF
 DKDGNGYISA AELRHVMTNL GEKLTDEEVD EMIREADIDG DGQVNYEEFV
 QMMTAKGSHM 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

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

ATF4 activating transcription factor 4 (tax-responsive enhancer element B67) [Homo sapiens]

Official Symbol

ATF4

Synonyms

ATF4; CREB2; TXREB; CREB-2; TAXREB67; activating transcription factor 4 (tax-responsive enhancer element B67); cyclic AMP-dependent transcription factor ATF-4; OTTHUMP00000199130; OTTHUMP00000199131; DNA-binding protein TAXREB67; cAMP response element-binding protein 2; cAMP-dependent transcription factor ATF-4; cAMP-responsive element-binding protein 2; cyclic AMP-responsive element-binding protein 2; tax-responsive enhancer element-binding protein 67; Cyclic AMP-dependent transcription factor ATF-4; Activating transcription factor 4; Cyclic AMP-responsive element-binding protein 2; Tax-responsive enhancer element-binding protein 67; TaxREB67

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Gene ID	468
mRNA Refseq	NM_001675
Protein Refseq	NP_001666
MIM	604064
UniProt ID	P18848
Chromosome Location	22q13.1
Function	DNA binding; RNA polymerase II transcription factor activity; protein binding; protein dimerization activity; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; specific RNA polymerase II transcription factor activity; transcription activator activity; transcription activator activity
PDBrendering based on 1ci6.	