

Recombinant Human ATF3

Cat. No. ATF3-3593H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ATF3 protein was expressed in E.coli and purified by using conventional chromatography (1-181 aa).
Species	Human
Source	E.coli
ProteinLength	1-181 a.a.
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 (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.
Form	Liquid. In 20mM Tris-HCl, pH8.0, 2M Urea, 20%Glycerol
Molecular Weight	20.6kDa (181aa)
Purity	> 90% by SDS - PAGE

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Concentration	1mg/ml (determined by Bradford assay)
Sequences of amino acids	MMLQHPPGQVS ASEVSASAIV PCLSPPGSLV FEDFANLTPF VKEELRFAIQ NKHLCRHMSS ALESVTVSDR PLGVSITKAE VAPEEDERKK RRRERNKIAA AKCRNKKKEK TECLQKESEK LESVNAELKA QIEELKNEKQ HLIYMLNLHR PTCIVRAQNG RTPEDERNLF IQQIKEGTLQ S
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	ATF3 activating transcription factor 3 [Homo sapiens]
Official Symbol	ATF3
Synonyms	ATF3; FLJ41705; activating transcription factor 3; cyclic AMP-dependent transcription factor ATF-3; OTTHUMP00000034887; OTTHUMP00000034888; OTTHUMP00000034890; OTTHUMP00000038594; cAMP-dependent transcription factor ATF-3; Cyclic AMP-dependent transcription factor ATF-3; Activating transcription factor 3; OTTHUMP00000038593; ATF3deltaZip3; ATF3deltaZip2c; ATF3deltaZip2
Gene ID	467
mRNA Refseq	NM_001030287
Protein Refseq	NP_001025458
MIM	603148

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UniProt ID	P18847
Chromosome Location	1q32.3
Function	identical protein binding; protein binding; protein dimerization activity; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; transcription corepressor activity; transcription repressor activity

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