

## Recombinant Human ATF3

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

### SPECIFICATION

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

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<b>Concentration</b>	1mg/ml (determined by Bradford assay)
<b>Sequences of amino acids</b>	MMLQHPPGQVS ASEVSASAIV PCLSPPGSLV FEDFANLTPF VKEELRFAIQ NKHLCHRMS ALESVTVSDR PLGVSITKAE VAPEEDERKK RRRERNKIAA AKCRNKKKEK TECLQKESEK LESVNAELKA QIEELKNEKQ HLIYMLNLHR PTCIVRAQNG RTPEDERNLF IQQIKEGTLQ S
<b>Storage</b>	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

<b>Gene Name</b>	<a href="#">ATF3 activating transcription factor 3 [ Homo sapiens ]</a>
<b>Official Symbol</b>	ATF3
<b>Synonyms</b>	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
<b>Gene ID</b>	<a href="#">467</a>
<b>mRNA Refseq</b>	<a href="#">NM_001030287</a>
<b>Protein Refseq</b>	<a href="#">NP_001025458</a>
<b>MIM</b>	<a href="#">603148</a>

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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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