

Recombinant Human Activating Transcription Factor 1, His-tagged

Cat. No. ATF1-1374H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinanthuman ATF1protein, fused to His-tag at N-terminus, was expressed in E.coli andpurified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	ATF1 is a cyclic-AMPdependent transcription factor. ATF1 is expressed in a wide variety of celltypes and is capable of dimerizing with CREB. MSK1 and MSK2 protein kinasesare required for the stress-induced phosphorylation of transcription factorsCREB and ATF1 in primary embryonic fibroblasts. Epidermal growth factorinduction of c-jun expression requires ATF1 and MEF2 sites in the c-junpromoter.
Form	Liquid. In 20 mMTris-HCl buffer (pH 8.0) containing 5 mM DTT, 50% glycerol, 0.2M NaCl, 2 mM EDTA.
Molecular Weight	31.8 kDa(295 aa), confirmed by MALDI-TOF.
Purity	> 90%by SDS-PAGE
Concentration	0.25mg/ml(determined by Bradford assay)
Sequences of	MGSSHHHHHHSSGLVPRGSH MGSHMEDSHK STTSETAPQP GSAVQGAHIS HIA

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aminoacids	QQVSSLS ESEESQDSSDSIGSSQKAHG ILARRPSYRK ILKDLSS EDT RGRKGDGE NS GVSAAVTSMSVPTPIYQTSS GQYIAIPNG ALQLASPGTD GVQGLQTLTM TNS GSTQQGT TILQYAQTSD GQQILVPSNQVVQTASGDM QTYQIRTTPS ATSLPQTV VM TSPVTLTSQT TKTDDPQLKR EIRLMKNREA ARECRRKKKEYVKCLENRVAVLE NQNKTLIEELKTLKDLY SNKSV
Storage	Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Pathways	ActivatedTLR4 signalling; CREB phosphorylation; EGFR1 Signaling Pathway; ErbB1downstream signaling; HTLV-I infection; IL-3 Signaling Pathway; ImmuneSystem; Innate Immunity Signaling; MAP kinase activation in TLR cascade;MyD88 cascade initiated on plasma membrane; Myometrial Relaxation andContraction Pathways; NGF signalling via TRKA from the plasma membrane;Serotonin Receptor 4/6/7 and NR3C Signaling; Signalling by NGF; TRAF6Mediated Induction of proinflammatory cytokines; Toll Like Receptor 10(TLR10) Cascade; Toll Like Receptor 2 Cascade
GENE INFORMATION	
Gene Name	ATF1 activating transcriptionfactor 1 [Homo sapiens]
Official Symbol	ATF1
Synonyms	ATF1; activatingtranscription factor 1; TREB36; EWS-ATF1;FUS/ATF-1; cyclic AMP- dependent transcription factor ATF-1; cAMP-dependenttranscription factor ATF-1
Gene ID	466
mRNA Refseq	NM_005171

Protein Refseq	NP_005162
MIM	123803
UniProt ID	P18846
Chromosome Location	12q13
Function	proteincomplex binding ; protein heterodimerization activity ; sequence-specific DNA binding ; sequence-specific DNA binding transcription factor activity ; sequence-specific distal enhancer binding RNA polymerase II transcriptionfactor activity
PDB rendering based on 1dh3.	