

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 GVSAAVTSM SVPTPIYQTSS GQYIAIPNG ALQLASPGTD GVQGLQTLTM TNS
 GSTQQGT TILQYAQTSD GQQILVPSNQVVVQTASGDM QTYQIRTTPS ATSLPQTV
 VM TSPVTLTSQT TKTDDPQLKR EIRLMKNREA ARECRKKKEYVKCLENRVAVLE
 NQNKT LIEELKTLKDLY 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

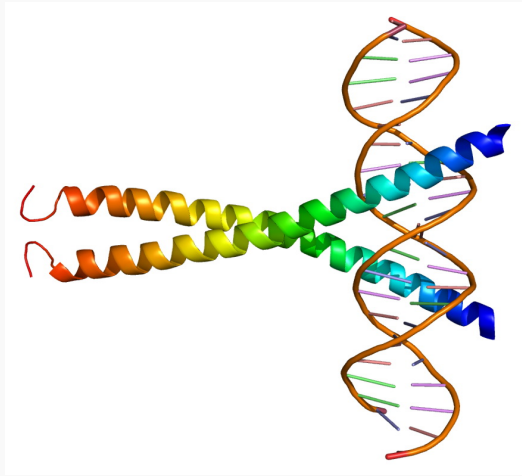
GENE INFORMATION

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

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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.	

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