

Recombinant Human ATF1 Protein, His-tagged

Cat. No. ATF1-919H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATF1 fused with His tag at C-terminal was expressed in E. coli.
Species	Human
Source	E.coli
Description	This gene encodes an activating transcription factor, which belongs to the ATF subfamily and bZIP (basic-region leucine zipper) family. It influences cellular physiologic processes by regulating the expression of downstream target genes, which are related to growth, survival, and other cellular activities. This protein is phosphorylated at serine 63 in its kinase-inducible domain by serine/threonine kinases, cAMP-dependent protein kinase A, calmodulin-dependent protein kinase I/II, mitogen- and stress-activated protein kinase and cyclin-dependent kinase 3 (cdk-3). Its phosphorylation enhances its transactivation and transcriptional activities, and enhances cell transformation. Fusion of this gene and FUS on chromosome 16 or EWSR1 on chromosome 22 induced by translocation generates chimeric proteins in angiomatoid fibrous histiocytoma and clear cell sarcoma. This gene has a pseudogene on chromosome 6
Form	Lyophilized from a 0.2 M filtered solution of PBS, pH 7.4.
Molecular Mass	30.3kD
AA Sequence	MEDSHKSTTSETAPQPGSAVQGAHISHIAQQVSSLSESEESQDSSDSIGSSQKAHGI LARRPSYRKILKDLSSDTRGRKGDGENSGVSAAVTSMSPVPTPIYQTSSGQYIAIP

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NGALQLASPGTDGVQGLQTLTMTNSGSTQQGTTILQYAQTSDGQQILVPSNQVVVQ
TASGDMQTYQIRTTPTSATSLPQTVVMTSPVTLTSQTTKTDDPQLKREIRLMKNREAA
RECRKKKEYVKLENRVAVLENQNKTL

Endotoxin Endotoxin level is <0.1 ng/g of protein (<1EU/g).

Purity >95% as determined by SDS-PAGE and Coomassie blue staining

Concentration Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name [ATF1 activating transcription factor 1 \[Homo sapiens \]](#)

Official Symbol [ATF1](#)

Synonyms ATF1; activating transcription factor 1; cyclic AMP-dependent transcription factor ATF-1; TREB36; cAMP-dependent transcription factor ATF-1; EWS-ATF1; FUS/ATF-1;

Gene ID [466](#)

mRNA Refseq [NM_005171](#)

Protein Refseq [NP_005162](#)

MIM [123803](#)

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UniProt ID

P18846

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