

Recombinant Human ATF6, His-tagged

Cat. No. ATF6-26190TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 567-670 of Human ATF6 with N terminal His tag, 104aa, 25kDa,
Species	Human
Source	E.coli
ProteinLength	567-670 a.a.
Description	This gene encodes a transcription factor that activates target genes for the unfolded protein response (UPR) during endoplasmic reticulum (ER) stress. Although it is a transcription factor, this protein is unusual in that it is synthesized as a transmembrane protein that is embedded in the ER. It functions as an ER stress sensor/transducer, and following ER stress-induced proteolysis, it functions as a nuclear transcription factor via a cis-acting ER stress response element (ERSE) that is present in the promoters of genes encoding ER chaperones. This protein has been identified as a survival factor for quiescent but not proliferative squamous carcinoma cells. There have been conflicting reports about the association of polymorphisms in this gene with diabetes in different populations, but another polymorphism has been associated with increased plasma cholesterol levels. This gene is also thought to be a potential therapeutic target for cystic fibrosis.
Conjugation	HIS
Tissue specificity	Ubiquitous.

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Form	Lyophilised:reconstitution with 92 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Store at 4°C. Upon reconstitution store at -80oC.
Sequences of amino acids	YVVSFRRDHLLLPATTHNKTTRPKMSIVLPAININENVIN GQDYEVMMQIDCQVMDT RILHIKSSSVPPYLRDQQRNQ TNTFFGSPPAATEATHVVSTIPESLQ
Sequence Similarities	Belongs to the bZIP family. ATF subfamily.Contains 1 bZIP domain.

GENE INFORMATION

Gene Name	ATF6 activating transcription factor 6 [Homo sapiens]
Official Symbol	ATF6
Synonyms	ATF6; activating transcription factor 6; cyclic AMP-dependent transcription factor ATF-6 alpha; activating transcription factor 6 alpha; ATF6A;
Gene ID	22926
mRNA Refseq	NM_007348
Protein Refseq	NP_031374
MIM	605537
Uniprot ID	P18850

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Chromosome Location	1q22-q23
Pathway	Activation of Chaperones by ATF6-alpha, organism-specific biosystem; Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Diabetes pathways, organism-specific biosystem; Protein processing in endoplasmic reticulum, organism-specific biosystem;
Function	protein binding; protein dimerization activity; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; transcription coactivator activity;

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