

Recombinant Human ATF4, His-tagged

Cat. No. ATF4-27047TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human ATF4 with an N terminal His-Calmodulin tag; 510 amino acids with tag, Predicted MWt 56.6 kDa.
Species	Human
Source	E.coli
ProteinLength	351 amino acids
Description	<p>This gene encodes a transcription factor that was originally identified as a widely expressed mammalian DNA binding protein that could bind a tax-responsive enhancer element in the LTR of HTLV-1. The encoded protein was also isolated and characterized as the cAMP-response element binding protein 2 (CREB-2). The protein encoded by this gene belongs to a family of DNA-binding proteins that includes the AP-1 family of transcription factors, cAMP-response element binding proteins (CREBs) and CREB-like proteins. These transcription factors share a leucine zipper region that is involved in protein-protein interactions, located C-terminal to a stretch of basic amino acids that functions as a DNA binding domain. Two alternative transcripts encoding the same protein have been described. Two pseudogenes are located on the X chromosome at q28 in a region containing a large inverted duplication.</p>
Conjugation	HIS
Molecular Weight	56.600kDa inclusive of tags

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Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 20mM Tris HCl, 1mM DTT, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MHHHHHMMADQLTEEQIAEFKEAFSLFDKDGDTITTKELGTVMRSLGQNPTEAEL QDMINEVDADGNGTIDFPEFLTMMARKMKDTSSEEEIREAFRVFDKDGNGYISAAEL RHVMTNLGEKLTDEEVDEMIREADIDGGQVNYEEFVQMMTAKGSHMTEMSFLSS EVLVGDLMSPFDQSGLGAEESLGLLDDYLEVAKHFKPHGFSSDKAKAGSSEWLAVD GLVSPSNNSKEDAFSGTDWMLEKMDLKEFDLDALLGIDDLETMPDDLTTLDDTCDL FAPLVQETNKQPPQTVNPIGHLPESLTKPDQVAPFTFLQPLPLSPGVLSSTPDHSFSL ELGSEVDITEGDRKPDYTAYVAMIPQCIKEEDTPSDNDSGICMSPESYLGSPQHSPS TRGSPNRSPLSPGVLCGSARPKPYDPPGEEKMVAAKVKGEKLDKLLKKMEQNKTA TRYRQKKRAEQEALTGECKELEKKNEALKERADSLAKEIQYLKDLIEEVRKARGKKR VP
Sequence Similarities	Belongs to the bZIP family. Contains 1 bZIP domain.

GENE INFORMATION

Gene Name	ATF4 activating transcription factor 4 (tax-responsive enhancer element B67) [Homo sapiens]
Official Symbol	ATF4
Synonyms	ATF4; activating transcription factor 4 (tax-responsive enhancer element B67);

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	TXREB; cyclic AMP-dependent transcription factor ATF-4; CREB 2; TAXREB67;
Gene ID	468
mRNA Refseq	NM_001675
Protein Refseq	NP_001666
MIM	604064
Uniprot ID	P18848
Chromosome Location	22q13.1
Pathway	Cholinergic synapse, organism-specific biosystem; Diabetes pathways, organism-specific biosystem; Dopaminergic synapse, organism-specific biosystem; Dopaminergic synapse, conserved biosystem; GnRH signaling pathway, organism-specific biosystem;
Function	DNA binding; DNA binding; protein binding; protein dimerization activity; sequence-specific DNA binding;

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