

Recombinant Human activating transcription factor 6 Protein, Tag Free

Cat. No. ATF6-191H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ATF6 protein (P18850) (Glu 12-Val 292) without tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	12-292aa
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. Precursor of the transcription factor form (Processed cyclic AMP-dependent transcription factor ATF-6 alpha), which is embedded in the endoplasmic reticulum membrane. Endoplasmic reticulum stress

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promotes processing of this form, releasing the transcription factor form that translocates into the nucleus, where it activates transcription of genes involved in the unfolded protein response (UPR).

Tag	Non
Molecular Mass	30.6 kDa
Endotoxin	Less than 1.0 EU/μg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution	Reconstitute at 250 μg/mL in sterile water.

GENE INFORMATION

Gene Name	ATF6 activating transcription factor 6 [Homo sapiens (human)]
Official Symbol	ATF6
Synonyms	ATF6; activating transcription factor 6; cyclic AMP-dependent transcription factor ATF-6 alpha; activating transcription factor 6 alpha; ATF6A; cAMP-dependent transcription factor ATF-6 alpha; FLJ21663; DKFZp686P2194;

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Gene ID	22926
mRNA Refseq	NM_007348
Protein Refseq	NP_031374
MIM	605537
UniProt ID	P18850

Protein on SDS-PAGE under reducing (R) condition.

