Datasheet for ABIN2115465

AFT1 Protein (AA 1-271) (His tag)

Go to Product page

Overview

Quantity:	50 µg
Target:	AFT1
Protein Characteristics:	AA 1-271
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This AFT1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Activating Transcription Factor 1/ATF1 (C-6His)
Sequence:	MEDSHKSTTS ETAPQPGSAV QGAHISHIAQ QVSSLSESEE SQDSSDSIGS SQKAHGILAR RPSYRKILKD LSSEDTRGRK GDGENSGVSA AVTSMSVPTP IYQTSSGQYI AIAPNGALQL ASPGTDGVQG LQTLTMTNSG STQQGTTILQ YAQTSDGQQI LVPSNQVVVQ TASGDMQTYQ IRTTPSATSL PQTVVMTSPV TLTSQTTKTD DPQLKREIRL MKNREAAREC RRKKKEYVKC LENRVAVLEN QNKTLIEELK TLKDLYSNKS VVEHHHHHH
Characteristics:	Recombinant Human Cyclic AMP-dependent transcription factor ATF-1 is produced with our E. coli expression system. The target protein is expressed with sequence (Met1-Val271) of Human ATF1 fused with a 6His tag at the C-terminus..
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	AFT1
Alternative Name:	ATF1 (AFT1 Products)
Background:	Cyclic AMP-dependent transcription factor ATF-1(ATF1) which contains 1 bZIP (basic-leucine zipper) domain and 1 KID (kinase-inducible) domain, belongs to the bZIP family. It influences cellular physiologic processes by regulating the expression of downstream target genes, which are related to growth, survival, and other cellular activities. ATF1 binds the cAMP response element (CRE) (consensus: 5'-GTGACGT[AC][AG]-3'), a sequence present in many viral and cellular promoters. It also binds to the Tax-responsive element (TRE) of HTLV-I. ATF1 mediates PKA-induced stimulation of CRE-reporter genes, represses the expression of FTH1 and other antioxidant detoxification genes, triggers cell proliferation and transformation. ATF1 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 CDK3. Its phosphorylation enhances its transactivation and transcriptional activities, and enhances cell transformation. Synonyms: Cyclic AMP-dependent transcription factor ATF-1,cAMP-dependent transcription factor ATF-1,Activating transcription factor 1,
Molecular Weight:	30.3 kDa
UniProt:	P18846
Pathways:	Neurotrophin Signaling Pathway, Activation of Innate immune Response, Myometrial Relaxation and Contraction, Toll-Like Receptors Cascades

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C

Handling

Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.