Recombinant human ATF1 protein

Catalog Number: ATGP1374

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-271aa

UniProt No.
P18846

NCBI Accession No.
NP_005162.1

Alternative Names
Activating transcription factor 1, EWS-ATF1, FuS/ATF-1, TREB36

PRODUCT SPECIFICATION

Molecular Weight
31.8 kDa (295aa) confirmed by MALDI-TOF

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 5mM DTT, 50% glycerol, 0.2M NaCl, 2mM EDTA

Purity
> 85% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
Activating transcription factor 1, also known as ATF1, is a cyclic-AMP dependent transcription factor. ATF1 is expressed in a wide variety of cell types and is capable of dimerizing with CREB. MSK1 and MSK2 protein kinases are required for the stress-induced phosphorylation of transcription factors CREB and ATF1 in primary embryonic fibroblasts. Epidermal growth factor induction of c-jun expression requires ATF1 and MEF2 sites in the c-jun promoter. Recombinant human ATF1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

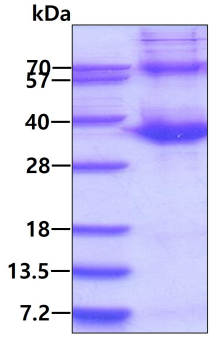
<MGSSHHHHHH SSGLVPRGSH MGSH>MEDSHK STTSETAPQP GSAVQGAHIS HIAQQVSSLS ESEESQDSSD SIGSSQKAHG ILARRPSYRK ILKDLSSEDT RGRKGDGENS GVSAAVTSMS VPTPIYQTSS GQYIAIAPNG ALQLASPGTD GVQGLQTLTM TNSGSTQQGT TILQYAQTSD GQQILVPSNQ VVVQTASGDM QTYQIRTTPS ATSLPQTVVM TSPVTLTSQT TKTDDPQLKR EIRLMKNREA ARECRRKKKE YVKCLENRVA VLENQNKTLI EELKTLKDLY SNKSV

General References

Lin Y S., et al. (1988) Proc Natl Acad Sci uSA. 85:3396-3400.
Gupta P., et al. (2002) J Biol Chem. 277:50550-50556.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.