

Activating Transcription Factor 3 (ATF3) Active Protein | ATF3 active protein

Active Activating Transcription Factor 3 (ATF3)

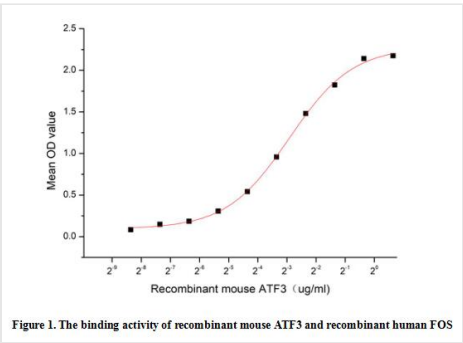
CATALOG # AAA161885	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Activating Transcription Factor 3 (ATF3); Active Activating Transcription Factor 3 (ATF3); Activating Transcription Factor 3; Cyclic AMP-dependent Transcription Factor ATF34; ATF3 active protein

PRODUCT SPECIFICATIONS

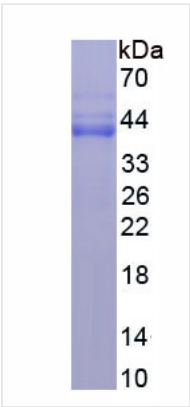
Host	E Coli
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Met1~Ser18 1
Applicable Applications for ATF3 active protein	Activity Assay, Cell Culture
Species	Mouse
Expression System	Prokaryotic expression
Tag	N-terminal His and GST Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	8.8
Research Area	Signal transduction
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months



Bioactivity

Activating transcription factor 3 (ATF3) is a stress-induced transcription factor that plays vital roles in modulating metabolism, immunity and oncogenesis. ATF3 acts as a hub of the cellular adaptive-response network. Multiple extracellular signals, such as endoplasmic reticulum (ER) stress, cytokines, chemokines, and LPS, are connected to ATF3 induction. Proto-oncogene c-Fos can bind to ATF3 to regulate signal transduction, cell proliferation and differentiation. Thus a functional ELISA assay was conducted to detect the interaction of recombinant mouse ATF3 and recombinant human FOS. Briefly, ATF3 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to FOS-coated microtiter wells and incubated for 1h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-ATF3 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37 degree C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 uL stop solution to the wells and read at 450/630nm immediately. The binding activity of recombinant mouse ATF3 and recombinant human FOS was shown in Figure 1, the EC50 for this effect is 0.13 ug/mL.

SDS-PAGE
Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for ATF3 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	31542154
NCBI GeneID	11910
NCBI Accession #	NP_031524.2
NCBI GenBank Nucleotide #	NM_007498.3
UniProt Accession #	Q60765
Molecular Weight	20,722 Da
NCBI Official Full Name	cyclic AMP-dependent transcription factor ATF-3
NCBI Official Synonym Full Names	activating transcription factor 3
NCBI Official Symbol	Atf3
NCBI Official Synonym Symbols	LRG-21
NCBI Protein Information	cyclic AMP-dependent transcription factor ATF-3
UniProt Protein Name	Cyclic AMP-dependent transcription factor ATF-3
UniProt Gene Name	Atf3
UniProt Synonym Gene Names	cAMP-dependent transcription factor ATF-3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/activating-transcription-factor-3-atf3/161885>