

# Recombinant human CREBZF protein

Catalog Number: ATGP2812

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-354aa

### UniProt No.

Q9NS37

### NCBI Accession No.

NP\_001034707

### Alternative Names

CREB/ATF bZIP transcription factor, CREB/ATF bZIP transcription factor, SMILE, ZF

## PRODUCT SPECIFICATION

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### Molecular Weight

39.5 kDa (377aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol, 1mM DTT, 0.1mM PMSF

### 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

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### Description

CREBZF strongly activates transcription when bound to HCFC1. It suppresses the expression of HSV proteins in cells infected with the virus in a HCFC1-dependent manner. This protein suppresses the HCFC1-dependent transcriptional activation by CREB3 and reduces the amount of CREB3 in the cell. CREBZF is able to down-regulate expression of some cellular genes in CREBZF-expressing cells. Recombinant human CREBZF 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 SGLVPRGSH MGSMRHS LTK LLAASGSNSP TRSESPEPAA TCSLPSDLTR AAAGEEETAA AGSPGRKQQF  
GDEGELEAGR GSRGGVAVRA PSPEEMEEEA IASLPGEETE DMDFLSGLEL ADLLDPRQPD WHLDPGLSSP GPLSSSGGGS  
DSGGLWRGDD DDEAAAAEMQ RFSDLLQRL NGIGGCSSSS DSGSAEKRRR KSPGGGGGGG SGNDNNQAAT  
KSPRKA AAAA ARLNRLKKKE YVMGLESRVR GLAAENQELR AENRELGKRV QALQEESRYL RAVLANETGL ARLLSRLSGV  
GLRLTTS LFR DSPAGDHDYA LPVGKQKQDL LEEDDSAGGV CLHVDKDKVS VEFCSACARK ASSSLKM

## General References

Lu R., Misra V..(2002) Nucleic Acids Res. 28:2446-2454  
Misra V., Rapin N, et al.(2005) J. Biol. Chem. 280:15257-15266.

## DATA

### SDS-PAGE

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

