

# Recombinant human I $\kappa$ B-alpha protein

Catalog Number: ATGP1261

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-317aa

### UniProt No.

P25963

### NCBI Accession No.

NP\_065390.1

### Alternative Names

NF-kappa-B inhibitor alpha, IKBA, MAD-3, NFKBI

## PRODUCT SPECIFICATION

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### Molecular Weight

37.7 kDa (337aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 20% glycerol, 0.1M NaCl

### 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

NF-kappa-B inhibitor alpha, also known as NFKBIA, is members of the I $\kappa$ B family of proteins can be divided into four groups (I $\kappa$ B-alpha, I $\kappa$ B-beta, I $\kappa$ B-gamma, I $\kappa$ B-epsilon). NFKBIA inhibits the NF $\kappa$ B complex by binding and sequestering it in the cytoplasm. upon stimulation, NFKBIA is phosphorylated on serine residues marking it for degradation by the ubiquitin pathway. Recombinant human NFKBIA 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> MFQAAERPQE WAMEGPRDGL KKERLLDDRH DSGLDSMKDE EYEQMVKELQ  
EIRLEPQVEP RGSEPWKQQL TEDGDSFLHL AIIHEEKALT MEVIRQVKGD LAFLNFQNNL QQTPLHLAVI TNQPEIAEAL  
LGAGCDPELR DFRGNTPLHL ACEQGCLASV GVLTQSCTTP HLHSILKATN YNGHTCLHLA SIHGYLEGIVE LLVSLGADV  
AQEPCNGRTA LHLAVDLQNP DLVSLLLKCG ADVNRVTYQG YSPYQLTWGR PSTRIQQQLG QLTLENLQML PESEDEESYD  
TESEFTEFTE DELPYDDCVF GGQRLTL

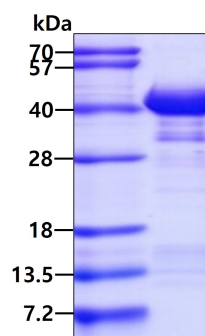
## General References

Simson C S., et al. (2000) J Biol Chem. 275:16879-16884.

Singh S., et al. (1996) J Biol Chem. 271:31049-31054.

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.