

Recombinant Human Nuclear Factor Of Kappa Light Polypeptide Gene Enhancer In B-Cells Inhibitor, Alpha, His-tagged

Cat. No. NFKBIA-6897H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human NFKBIA protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 37.7 kDa.
Species	Human
Source	E.coli
ProteinLength	1-317aa
Description	NFKBIA is members of the IκB family of proteins can be divided into four groups (IκB-alpha, IκB-beta, IκB-gamma, IκB-epsilon). NFKBIA inhibits the NFκB 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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 20% glycerol, 0.1M NaCl.
Molecular Mass	37.7 kDa (337aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MFQAAERPQE WA MEGPRDGL KKERLLDDRH DSGLDSMKDE EYEQMVKELQ EIRLEPQEVN RGSEPWKQQL TEDGDSFLHL

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AIIHEEKALT MEVIRQVKGD LAFLNFQNNL QQTPLHLAVI TNQPEIAEAL
 LGAGCDPELR DFRGNTPLHL ACEQGCLASV GVLTQSCTTP HLHSILKATN
 YNGHTCLHLA SI HGYLGIVE LLVSLGADV N AQEPCNGRTA LHLAVDLQNP
 DLVSLLLKCG ADVNRVTYQG YSPYQLTWGR PSTRIQQQLG QLTLENLQML
 PESEDEESYD TESEFTEFTE DELPYDDCVF GGQRTL

Purity >90% by SDS-PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name NFKBIA nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha [Homo sapiens]

Official Symbol NFKBIA

Synonyms NFKBIA; nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha; NFKBI; NF-kappa-B inhibitor alpha; IkappaBalpha; IKBA; MAD 3; ikB-alpha; I-kappa-B-alpha; nuclear factor of kappa light chain gene enhancer in B-cells; major histocompatibility complex enhancer-binding protein MAD3; MAD-3;

Gene ID 4792

mRNA Refseq NM_020529

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Protein Refseq	NP_065390
MIM	164008
UniProt ID	P25963
Chromosome Location	14q13
Pathway	Activated TLR4 signalling, organism-specific biosystem; Activation of NF-kappaB in B Cells, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Apoptosis, organism-specific biosystem; Apoptosis, organism-specific biosystem;
Function	NF-kappaB binding; NF-kappaB binding; enzyme binding; heat shock protein binding; identical protein binding; nuclear localization sequence binding; protein binding; transcription factor binding; ubiquitin protein ligase binding;