

Recombinant Human IKBZ Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50484

Size: 10ug, 100ug

Protein Name: NF-kappa-B inhibitor zeta (I-kappa-B-zeta) (Ikb-zeta) (IkappaBzeta) (IL-1 inducible nuclear ankyrin-repeat protein) (INAP) (Molecule possessing ankyrin repeats induced by lipopolysaccharide) (MAIL)

Synonym: NFKBIZ, IKBZ, INAP, MAIL

UniProt ID: Q9BYH8

UniProt Link: www.uniprot.org/uniprotkb/Q9BYH8/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 718 AA

Molecular Weight: 78 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MIVDKLLDDSRGGEGRLRDAAGGCGLMTSPLNLSYFYGASPPAAAPGACDASCSVLGPSAPGSPGS
DSSDFSSASSVSSCGAVESRSRGGARAERQPVEPHMGVGRQQRGPFQGVVRVKNVSKELLHIRSH
KQKASGQAVDDFKTQGVNIEQFRELKNTVSYSYSGKRKGPDLSLSDGPACKRPALLHSQFLTPPQTPTP
GESMEDVHLNEPKQESSADLLQNIINIKNECSPVSLNTVQVSWLNPVVVPQSSPAEQCQDFHGGQV
FSPQKQCPQFQVRGSQQMIDQASLYQYSPQNQHVEQQPHYTHKPTLEYSFPPIPPQSPAYEPNLF
GPESQFCPNQSLVSLLDGQRESENIANPMQTSSSVQQQND AHLHSFSMMPSSACEAMVGHEMAS
DSSNTSLPFSNMGNPMNTTQLGKSLFQWQVEQEESKLANISQDQFLSKDADGDTFLHIAVAQGRRA
LSYVLARKMNALHMLDIKEHNGQSAFQVAVANQHILVQDLVNIGAQVNTTDCWGRTPLHVCAEKG
HSQVLQAIQKGAVGSNQFVDLEATNYDGLTPLHCAVIAHNAVHQLQRNQPHSPEVQELLLKNKSL
VDTIKCLIQMGAAVEAKDRKSGRTALHLAAEEANLELIRLFLELPSCLSFVNAKAYNGNTALHVAASLQ
YRLTQLDAVRLLMRKGADPSTRNLENEQPVHLVDPGVPVGEQIRILKGKSIQQRAPPY

3. Buffer Composition



Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant NF-kappa-B inhibitor zeta (I-kappa-B-zeta) (IκB-zeta) (IkappaBzeta) (IL-1 inducible nuclear ankyrin-repeat protein) (INAP) (Molecule possessing ankyrin repeats induced by lipopolysaccharide) (MAIL) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Involved in regulation of NF-kappa-B transcription factor complexes (PubMed:16513645, PubMed:16622025). Inhibits NF-kappa-B activity without affecting its nuclear translocation upon stimulation (PubMed:16513645). Inhibits DNA-binding of RELA and NFKB1/p50, and of the NF-kappa-B p65-p50 heterodimer and the NF-kappa-B p50-p50 homodimer (PubMed:16513645). Also seems to activate NF-kappa-B-mediated transcription (PubMed:16622025). In vitro, upon association with NFKB1/p50 has transcriptional activation activity and, together with NFKB1/p50 and RELA, is recruited to LCN2 promoters (PubMed:16622025). Promotes transcription of LCN2 and DEFB4 (PubMed:16622025). Is recruited to IL-6 promoters and activates IL-6 but decreases TNF production in response to LPS (By similarity). Seems to be involved in the induction of inflammatory genes activated through TLR/IL-1 receptor signaling (By similarity). Involved in the induction of T helper 17 cells (Th17) differentiation upon recognition of antigen by T cell antigen receptor (TCR) (By similarity).

Subcellular Localization: Nucleus . Note=Aggregated in dot-like structures (PubMed:16513645). Colocalizes with NCOR2 (PubMed:16513645).

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.