NFKBIE/IKB epsilon Protein, Human (His)

Cat. No.:	HY-P701230
Synonyms:	C20orf18; HOIL-1; HOIL1; PBMEI; PGBM1; RBCK2; RNF54; UBCE7IP3; XAP3; XAP4; ZRANB4
Species:	Human
Source:	E. coli
Accession:	O00221 (M1-D500)
Gene ID:	4794
Molecular Weight:	Approximately 57 kDa

PROPERTIES

AA Sequence

M N Q R R S E S R P G N H R L Q A Y A E P G K G D S G G A G P L S G S A R R G R
G G G G A I R V R R P C W S G G A G R G G G P A W A V R L P T V T A G W T W P A
L R T L S S L R A G P S E P H S P G R R P P R A G R P L C Q A D P Q P G K A A R
R S L E P D P A Q T G P R P A R A A G M S E A R K G P D E A E E S Q Y D S G I E
S L R S L R S L P E S T S A P A S G P S D G S P Q P C T H P P G P V K E P Q E K
E D A D G E R A D S T Y G S S S L T Y T L S L L G G P E A E D P A P R L P L P H
V G A L S P Q Q L E A L T Y I S E D G D T L V H L A V I H E A P A V L L C C L A
L L P Q E V L D I Q N N L Y Q T A L H L A V H L D Q P G A V R A L V L K G A S R
A L Q D R H G D T A L H V A C Q R Q H L A C A R C L L E G R P E P G R G T S H S
L D L Q L Q N W Q G L A C L H I A T L Q K N Q P L M E L L L R N G A D I D V Q E
G T S G K T A L H L A V E T Q E R G L V Q F L L Q A G A Q V D A R M L N G C T P
L H L A A G R G L M G I S S T L C K A G A D S L L R N V E D E T P Q D L T E E S
L V L L P F D D L K I S G K L L L C T D

Appearance	Lyophilized powder
Formulation	Lyophilized from sterile 50 mM Tris-HCL, 200 mM NaCl, 200 mM arginine, pH 8.0, 10% Glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	NFKBIE/IKB epsilon protein plays a crucial role in inhibiting NF-kappa-B by forming a complex with it, thereby sequestering it in the cytoplasm. It exerts its inhibitory effects by preventing the DNA-binding activity of NF-kappa-B, specifically targeting complexes involving p50-p65, p50-c-Rel, and interacting with individual subunits such as RELA, REL, NFKB1 (p50), and NFKB2 (p52). Through these interactions, NFKBIE/IKB epsilon contributes to the regulation of NF-kappa-B signaling, playing a pivotal role in controlling its nuclear translocation and subsequent transcriptional activities.

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