

IKB beta/NFKBIB Protein, Human (His)

Cat. No.:	HY-P76986
Synonyms:	NF-kappa-B inhibitor beta; NF-kappa-BIB; TRIP-9; IKBB
Species:	Human
Source:	E. coli
Accession:	Q15653 (M1-V356)
Gene ID:	4793
Molecular Weight:	Approximately 45 kDa.

PROPERTIES

AA Sequence	<pre> MAGVACLGKA ADADEWCDSG LGS LGPDAAA PGGPGLGAEL GPGLSWAPLV FGYVTE DGD T ALHLAVIHQH EPFLDFLLGF SAGTEYMDLQ NDLGQTALHL AAILGETSTV EKLYAAGAGL CVAERRGHTA LHLACRVGAH ACARALLQPR PRRPREAPDT YLAQGPD RTP DTNHTPV ALY PDS DLEKEEE ESEEDWKLQL EAENYEGHTP LHVAVIHKDV EMVRLLRDAG ADLDKPEPTC GRSPLHLAVE AQAADVLELL LRAGANPAAR MYGGRTPLGS AMLRPNPILA RLLRAHGAP E PEGEDEKSGP C S S S S D S D S G DEGDEYDDIV VHSSRSQTRL PPTPASKPLP DDPRPV </pre>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. 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	IKB beta/NFKBIB protein functions as a potent inhibitor of NF-kappa-B by forming a complex with it and sequestering it in the cytoplasm. Upon cell stimulation, the unphosphorylated form is resynthesized, enabling its binding to NF-kappa-B and facilitating its transport to the nucleus. This protects NF-kappa-B from further NFKBIA-dependent inactivation. Additionally,
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its association with inhibitor kappa B-interacting NKIRAS1 and NKIRAS2 prevents phosphorylation, rendering it more resistant to degradation and explaining its slower turnover. IKB beta/NFKBIB protein exhibits interactions with THRB, RELA, and REL, contributing to its regulatory role. Moreover, it interacts with COMMD1 and inhibitor kappa B-interacting Ras-like NKIRAS1 and NKIRAS2, adding further complexity to its modulatory functions.

Caution: Product has not been fully validated for medical applications. For research use only.

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