

Recombinant Human TBK1 protein, His-tagged

Cat. No. TBK1-337H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TBK1(1-729 aa) fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-729 a.a.
Description	The NF-kappa-B (NFKB) complex of proteins is inhibited by I-kappa-B (IKB) proteins, which inactivate NFKB by trapping it in the cytoplasm. Phosphorylation of serine residues on the IKB proteins by IKB kinases marks them for destruction via the ubiquitination pathway, thereby allowing activation and nuclear translocation of the NFKB complex. This protein is similar to IKB kinases and can mediate NFKB activation in response to certain growth factors. For example, the protein can form a complex with the IKB protein TANK and TRAF2 and release the NFKB inhibition caused by TANK.
Form	Tris-based buffer, 50% glycerol
AA Sequence	MQSTSNHLWL LSDILGQGAT ANVFRGRHKK TGD LFAIKVF NNISFLRPVD VQMREFEVLK KLNHNKIVKL FAIEEETTTR HKVLIMEFCP CGSLYTVLEE PSNAYGLPES EFLIVLRDVV GGMNHLRENG IVHRDIKPGN IMRVIGEDGQ SVYKLTDFGA ARELEDDEQF VSLYGTEEYL HPDMYERAVL RKDHQKKYGA TVDLWSIGVT FYHAATGSLP FRPFEGPRRN KEV MYKIITG KPSGAISGVQ KAENGPIDWS GDMPVSCSL S RGLQVLLTPV LANILEADQE KCWGFDQFFA

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ETSDILHRMV IHVFSLQQMT AHKIYHSYN TATIFHELVY KQTKIISSNQ
 ELIYEGRRLV LEPGRLAQHF PKTTEENPIF VVSREPLNTI GLIYEKISLP
 KVHPRYDLTG DASMAKITG VVCYACRIAS TLLLYQELMR KGIRWLIELI
 KDDYNETVHK KTEVVITLDF CIRNIEKTVK VYEKLMKINL EAAELGEISD
 IHTKLLRLSS SQGTIETSLQ DIDSRLSPGG SLADAWAHQE GTHPKDRNVE
 KLQVLLNCMT EIYYQFKKDK AERRLAYNEE QIHKFDKQKL YYHATKAMTH
 FTDECVKKYE AFLNKSEEWI RKMLHLRKQL LSLTNQCFDI EEEVSKYQEY
 TNELQETLPQ KMFTASSGIK HTMTPIYPSS NTLVEMTLGM KKLKEEMEGV
 VKELAENNIH LERFGSLTMD GGLRNVDCI

Purity >90% (SDS-PAGE)

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage Store at -20 centigrade, for extended storage, conserve at -20 centigrade or -80 centigrade.

GENE INFORMATION

Gene Name [TBK1 TANK-binding kinase 1 \[Homo sapiens \]](#)

Official Symbol [TBK1](#)

Synonyms TBK1; TANK-binding kinase 1; serine/threonine-protein kinase TBK1; NAK; NF-kB-activating kinase; NF-kappa-B-activating kinase; T2K; FLJ11330;

Gene ID [29110](#)

mRNA Refseq [NM_013254](#)

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Protein Refseq	NP_037386
MIM	604834
UniProt ID	Q9UHD2
Chromosome Location	12q14.2
Pathway	Activated TLR4 signalling, organism-specific biosystem; Activation of IRF3/IRF7 mediated by TBK1/IKK epsilon, organism-specific biosystem; Cytosolic DNA-sensing pathway, organism-specific biosystem; Cytosolic DNA-sensing pathway, conserved biosystem; Cytosolic sensors of pathogen-associated DNA, organism-specific biosystem
Function	ATP binding; nucleic acid binding; nucleotide binding; phosphoprotein binding; protein binding; protein kinase activity; protein serine/threonine kinase activity;

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