

Active Recombinant Full Length Human TBK1 Proein, GST-tagged

Cat. No. TBK1-443H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human TBK1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. MW = 105 kDa.
Species	Human
Source	Sf9 Cells
ProteinLength	1-729 a.a.
Description	<p>TBK1, also known as NAK or NFkB-activating kinase, is an upstream protein kinase that can phosphorylate and activate the IκB kinases. Activation of IκB kinases allows the phosphorylation of IκB protein which is then degraded via the ubiquitination pathway. This mechanism allows the activation of the NFkB transcriptional complex. TBK1 is a specific upstream regulator of IκB kinases and can also interact and the IκB protein TANK. TBK1 is a component of the virus-activated kinase that phosphorylate IRF3 and IRF7 allowing their dimerization and translocation to the nucleus, where they induce transcription of interferon.</p>
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable

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performance, avoid repeated handling and multiple freeze/thaw cycles.

Bio-activity 282 nmol/min/mg

GENE INFORMATION

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

Synonyms TBK1; TANK-binding kinase 1; NAK; T2K; FLJ11330; NF-kB-activating kinase; EC 2.7.11.1; NF-kappa-B-activating kinase; Serine/threonine-protein kinase TBK1

Gene ID [29110](#)

mRNA Refseq [NM_013254](#)

Protein Refseq [NP_037386](#)

MIM [604834](#)

UniProt ID [Q9UHD2](#)

Chromosome Location 12q14.1

Pathway RIG-I-like receptor signaling pathway; Toll-like receptor signaling pathway

Function ATP binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; transferase activity

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