

Active Recombinant Mouse Tbk1 Protein, GST-tagged

Cat. No. Tbk1-6316M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length mouse TBK1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Mouse
Source	Insect Cells
Description	Enables several functions, including identical protein binding activity; protein phosphatase binding activity; and protein serine/threonine kinase activity. Involved in negative regulation of gene expression; peptidyl-serine phosphorylation; and positive regulation of defense response. Acts upstream of or within several processes, including defense response to Gram-positive bacterium; dendritic cell proliferation; and positive regulation of interferon-beta production. Predicted to be located in nucleoplasm. Predicted to be active in cytoplasm. Is expressed in several structures, including alimentary system; brain; genitourinary system; respiratory system; and sensory organ. Human ortholog(s) of this gene implicated in brain disease and frontotemporal dementia and/or amyotrophic lateral sclerosis-4. Orthologous to human TBK1 (TANK binding kinase 1).
Bio-activity	286.5 nmol/min/mg
Molecular Mass	105 kDa
Purity	> 85%

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Stability	1 year at -70 centigrade from date of shipment.
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 µg/µL
Storage Buffer	50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol.
Shipping	Dry ice.

GENE INFORMATION

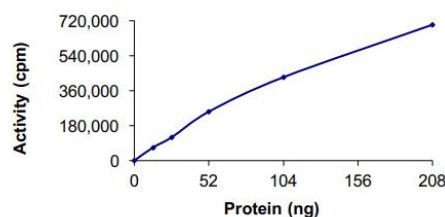
Gene Name	Tbk1 TANK-binding kinase 1 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Tbk1
Synonyms	Tbk1; TANK-binding kinase 1; 1200008B05Rik; serine/threonine-protein kinase TBK1; T2K; EC 2.7.11.1
Gene ID	56480
mRNA Refseq	NM_019786
Protein Refseq	NP_062760
UniProt ID	A1L361

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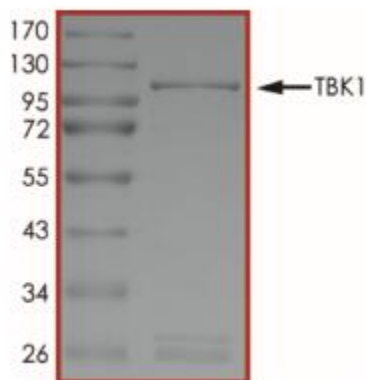
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Specific Activity



The specific activity of TBK1 was determined to be 286.5 nmol/min/mg as per activity assay protocol.

Purity



The purity of TBK1 was determined to be >85% by densitometry.