

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

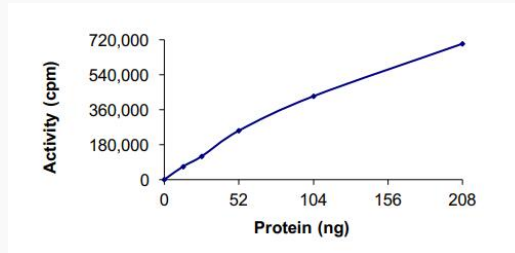
Gene Name	Tbk1 TANK-binding kinase 1 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Tbk1
Synonyms	Tbk1; TANK-binding kinase 1; 1200008B05Rik; serine/threonine-protein kinase TBK1; T2K; EC 2.7.11.1
Gene ID	56480
mRNA Refseq	NM_019786
Protein Refseq	NP_062760
UniProt ID	A1L361

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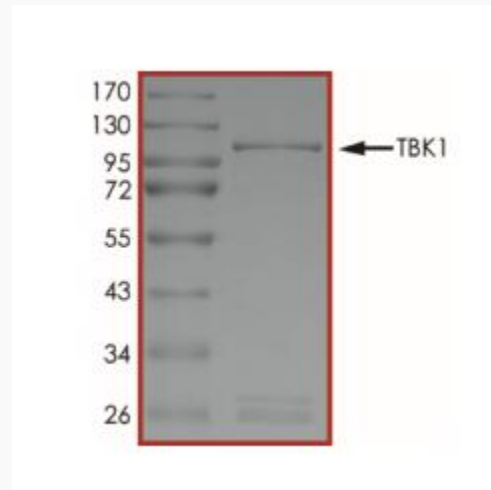
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Specific Activity



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.

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