

Recombinant Human Tau Tubulin Kinase 2, GST-tagged

Cat. No. TTBK2-1114H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse TTBK2 (70-538) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	70-538 a.a.
Description	TTBK2 or tau tubulin kinase 2 is a serine-threonine kinase that putatively phosphorylates tau and tubulin proteins. TTBK2 is a member of the casein kinase (CK1) group of eukaryotic protein kinases that is involved in tau phosphorylation and aggregation. Mutations in TTBK2 cause spinocerebellar ataxia type 11 (SCA11) (a neurodegenerative disease characterized by progressive ataxia and atrophy of the cerebellum and brainstem).
Applications	Kinase Assay; Western Blot
Molecular Weight	88kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1mM PMSF, 25% glycerol.

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Specific Activity	370nmol/min/mg
Purity	>95%
Concentration	0.1 ug/ul
Sequences	27-end
Storage	Store product at -70oC. 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. Product shipped on dry ice.

GENE INFORMATION

Gene Name	TTBK2 tau tubulin kinase 2 [Homo sapiens]
Official Symbol	TTBK2
Synonyms	TTBK2; tau tubulin kinase 2; TTBK; SCA11; KIAA0847; spinocerebellar ataxia 11; NP_775771.3; EC 2.7.11.1; tau-tubulin kinase; EC 2.7.11
Gene ID	146057
mRNA Refseq	NM_173500
Protein Refseq	NP_775771
MIM	611695
UniProt ID	Q6IQ55

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Chromosome**Location**

15q15.2

Function

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

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