

Active Recombinant Human TTBK1, GST-tagged

Cat. No. TTBK1-828H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TTBK1 (1-479) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	1-479
Description	TTBK1 or tau-tubulin kinase 1 is a recently discovered brain-specific protein kinase involved in tau phosphorylation at Alzheimer's disease-related sites. Two single nucleotide polymorphisms have been observed in the TTBK1 gene and these may play an important role in the pathogenesis of sporadic late-onset Alzheimer's disease. TTBK1 levels are upregulated in brains of human Alzheimer's disease (AD) patients compared with age-matched non-AD controls. Overexpression of TTBK1 in transgenic mice leads to increased phosphorylation-related neurofilament aggregation which results in significant age-dependent memory impairment.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	160 nmol/min/mg
Molecular Mass	~96 kDa

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Purity	>90%
Applications	Kinase Assay, Western Blot
Stability	1yr at –70°C from date of shipment
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.
Concentration	0.1ug/ul
GENE INFORMATION	
Gene Name	TTBK1 tau tubulin kinase 1 [Homo sapiens]
Official Symbol	TTBK1
Synonyms	TTBK1; tau tubulin kinase 1; tau-tubulin kinase 1; KIAA1855; brain-derived tau kinase; BDTK; RP3-330M21.4;
Gene ID	84630
mRNA Refseq	NM_032538
Protein Refseq	NP_115927
UniProt ID	Q5TCY1
Chromosome Location	6p21.1

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Function

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

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