

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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