

## Recombinant Human TTBK1 (N-GST tag)

Cat No:HR2R2040

For research use only

### Overview

Quantity	10 ?g
Gene Symbol	TTBK1
Gene ID	N/A
Accession	NM_032538
Alternative Name	BDTK; RP3-330M21.4
Species	Human
Source	Insect cells
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' 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.
Functions	The specific activity of TTBK1 was determined to be 160 nmol /min/mg as per activity assay protocol.
Formulation	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Solubility	N/A
Appearance	Liquid
Molecular Weight	96
Purity	70% - 90%
Concentration	
Shipping Condition	Dry Ice
Storage Condition	Store product at ?70?C. 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.