

Active Recombinant Human TLK1, GST-tagged

Cat. No. TLK1-1497H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human TLK1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	TLK1 or tousled-like kinase 1 is a nuclear serine/threonine kinase that is potentially involved in the regulation of chromatin assembly. TLK1 is first described in Arabidopsis. TLK1 is a novel target of the DNA damage checkpoint that is rapidly inactivated upon exposure to ionizing radiation (IR) and the inactivation is directly mediated by the S-phase DNA damage checkpoint. The suppression of TLK1 activity after double-strand breaks in the DNA, replication blockade, or low doses of ultraviolet irradiation requires ATM, NBS and CHK1.
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	6.2 nmol/min/mg
Molecular Mass	~135 kDa
Purity	>90%

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	Kinase Assay, Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1µg/µl
GENE INFORMATION	
Gene Name	TLK1 tousled-like kinase 1 [Homo sapiens]
Official Symbol	TLK1
Synonyms	TLK1; tousled-like kinase 1; serine/threonine-protein kinase tousled-like 1; KIAA0137; PKU BETA; SNARE protein kinase SNAK; serine threonine protein kinase; PKU-beta;
Gene ID	9874
mRNA Refseq	NM_001136554
Protein Refseq	NP_001130026
MIM	608438
UniProt ID	Q9UKI8
Chromosome Location	2q31.1
Function	ATP binding; nucleotide binding; protein serine/threonine kinase activity; protein serine/threonine kinase activity;

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