

Recombinant Human Tousled-Like Kinase 1, GST-tagged

Cat. No. TLK1-1112H **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
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.
Applications	Kinase Assay; Western Blot
Molecular Weight	135 kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150 mM imidazole, 0.1 mM PMSF, 0.25 mM DTT, 25% glycerol.
Specific Activity	6.2 nmol/min/mg

 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

Purity	> 90 %
Concentration	0.1 ug/ul
Sequences	Full-length
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.

GENE INFORMATION

Gene Name	TLK1 tousled-like kinase 1 [Homo sapiens]
Official Symbol	TLK1
Synonyms	TLK1; tousled-like kinase 1; KIAA0137; PKU-beta; Serine/threonine-protein kinase tousled-like 1; EC=2.7.11.1; Tousled-like kinase 1; serine threonine protein kinase; SNARE protein kinase SNAK; EC 2.7.11; EC 2.7.11.1; PKU-BETA; OTTHUMP00000205035; OTTHUMP00000205036; OTTHUMP00000205037; OTTHUMP00000205038; OTTHUMP00000205039; OTTHUMP00000225037; OTTHUMP00000163076; OTTHUMP00000163077
Gene ID	9874
mRNA Refseq	NM_012290
Protein Refseq	NP_036422
MIM	608438

 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

UniProt ID	Q9UKI8
Chromosome Location	2q31.1
Function	ATP binding; protein serine/ threonine kinase activity; nucleotide binding

 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