Recombinant Human Tousled-Like Kinase 1, GST-tagged

Cat. No. TLK1-1361H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the human TLK1 isoform 1 (Met 1 - Tyr 766) was fused with the N-terminal polyhistidine-tagged GST-tagged tag at the N-terminus. The recombinant human TLK1 / GST-tagged chimera consists of 1003 amino acids and has a calculated molecular mass of 114 kDa.
Species	Human
Source	Insect Cells
ProteinLength	1003aa
Description	TLK1 is a nucleus protein which belongs to the protein kinase superfamily and Ser/Thr protein kinase family. Tousled-like kinases (Tlks) are highly conserved in both plants and animals. In plants, Tousled kinase is essential for proper flower and leaf development. In human cells, two structurally similar Tlks, TLK1 and TLK2, were shown to be cell cycle-regulated kinases with maximal activities during S phase. TLK1 contains one protein kinase domain. It is widely expressed.
Predicted N Terminal	Met
Form	Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.4, 10% gly. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA.
Molecular Mass	The recombinant human TLK1 / GST-tagged chimera consists of 1003 amino acids

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	and has a calculated molecular mass of 114 kDa. It migrates as an approximately 125 kDa band in SDS-PAGE under reducing conditions.
Endotoxin	1.0 eu/μg of the protein as determined by the lal
Purity	>88 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70 °C.
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

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

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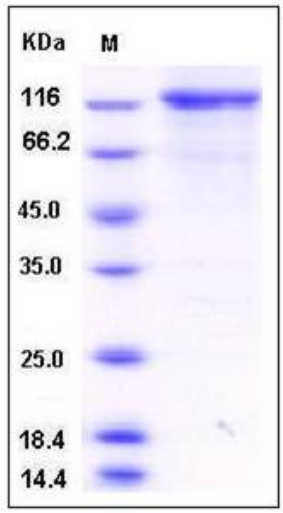
Chromosome Location	2q31.1
Function	ATP binding; nucleotide binding; protein serine/threonine kinase activity; protein serine/threonine kinase activity;
TLK1 protein	

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