

TLK1 Protein, Human, Recombinant (His & GST)

General Information

Synonyms:	KIAA0137;PKU-beta;tousled like kinase 1;PKU-β
Protein Construction:	A DNA sequence encoding the human TLK1 isoform 1 (Q9UKI8-1) (Met 1-Tyr 766) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus. Predicted N terminal: Met
Species:	Human
Expression Host:	Baculovirus Insect Cells
Accession:	Q9UKI8-1
Molecular Weight:	114 kDa (predicted); 125 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 88 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Supplied as sterile 20 mM Tris, 500 mM NaCl, pH 7.4, 10% gly.

Preparation and Storage

Reconstitution:	A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.
Stability & Storage:	It is recommended to store the product under sterile conditions at -20°C to -80°C. Samples are stable for up to 12 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	Proteins are shipped with blue ice.

Protein Background

Tousled-like kinase 1 (or protein kinase ubiquitous, PKU-beta/TLK1) is a serine/threonine protein kinase that is implicated in chromatin remodeling, DNA replication and mitosis. TLK1 has a function important for proper chromosome segregation and maintenance of diploid cells at mitosis in mammalian cells that could be mediated by reduced phosphorylation of histone H3 and condensation of chromosomes, although other explanations to the phenotype are possible.

Reference

Sillje H.H.W., et al., 2001, Curr. Biol. 11:1068-73.

Beausoleil S.A., et al., 2004, Proc. Natl. Acad. Sci. USA. 101:12130-5.

Oppermann F.S., et al., 2009, Mol. Cell. Proteomics 8:1751-64.

Mayya V., et al., 2009, Sci. Signal. 2: RA46-RA46.

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