

## Recombinant Human TLK2/PKU-ALPHA Protein (His&GST Tag)

**Catalog Number:** PKSH030363

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

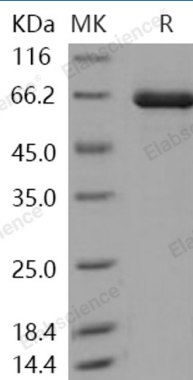
### Description

<b>Species</b>	Human
<b>Source</b>	Baculovirus-Insect Cells-derived Human TLK2/PKU-ALPHA protein Leu 397-Asn 772, with an N-terminal His & GST
<b>Calculated MW</b>	71.3 kDa
<b>Observed MW</b>	65 kDa
<b>Accession</b>	Q86UE8-1
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Concentration</b>	Subject to label value.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	This product is provided as liquid. It is shipped at frozen temperature with blue ice/ gel packs. Upon receipt, store it immediately at < - 20°C.
<b>Formulation</b>	Supplied as sterile solution of 20mM Tris, 500mM NaCl, 0.5mM PMSF, pH 8.0

### Data



> 95 % as determined by reducing SDS-PAGE.

### Background

Serine / threonine-protein kinase tousel-like 2; also known as PKU-alpha; Tousel-like kinase 2 and TLK2; is a nucleus protein which belongs to the protein kinase superfamily and Ser/Thr protein kinase family. The tousel-like kinases are an evolutionarily conserved family of proteins implicated in DNA repair; DNA replication and mitosis in metazoans and plants. Their absence from the yeasts and other eukaryotic 'microbes' suggests a specific role for them in the development of multicellular organisms. Tousel-like kinase 2 / TLK2 is widely expressed. It is present in fetal placenta; liver; kidney; pancreas; heart and skeletal muscle. It is also found in adult cell lines. Tousel-like kinase 2 / TLK2 contains one protein kinase domain. Tousel-like kinase 2 / TLK2 is rapidly and transiently inhibited by phosphorylation following the generation of DNA double-stranded breaks during S-phase. This is cell cycle checkpoint and ATM-pathway dependent and appears to regulate processes involved in chromatin assembly.

### For Research Use Only

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