

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

Catalog Number: PKSH030363

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

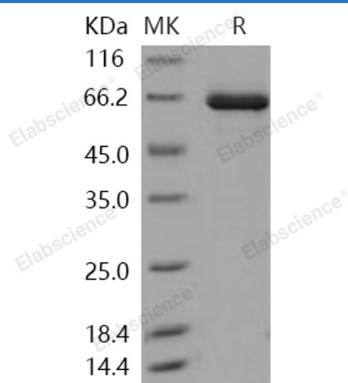
Description

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

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Concentration	Subject to label value.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	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.
Formulation	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.

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