TLK2 Protein, Human (sf9, His-GST)

Cat. No.:	HY-P76107
Synonyms:	Serine/threonine-protein kinase tousled-like 2; HsHPK; PKU-alpha; Tousled-like kinase 2; TLK2
Species:	Human
Source:	Sf9 insect cells
Accession:	Q86UE8 (L397-N772)
Gene ID:	11011
Molecular Weight:	Approximately 65 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM Tris, 500 mM NaCl, 0.5 mM PMSF, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	TLK2, a serine/threonine-protein kinase, plays a crucial role in the intricate processes of chromatin assembly, potentially extending its influence to DNA replication, transcription, repair, and chromosome segregation. This kinase exhibits a multifaceted role by phosphorylating chromatin assembly factors, including ASF1A and ASF1B, and contributing to their stabilization, particularly through the prevention of proteasome-mediated degradation. By enhancing chromatin assembly, TLK2 actively participates in the maintenance of genomic integrity. Additionally, TLK2 functions as a negative regulator of amino acid starvation-induced autophagy, showcasing its involvement in cellular responses to nutritional cues. This versatile kinase, with its impact on fundamental cellular processes, emerges as a key player in the intricate orchestration of various aspects of nuclear and cellular dynamics.

Caution: Product has not been fully validated for medical applications. For research use only.

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