Recombinant TLK2 protein (His tag)

Catalog Number	547626
Synonyms	HsHPK; PKU-alpha; Tousled-like kinase 2
Species	Human
Expression System	E. coli
Accession	Q86UE8
Molecular Weight	Predictes a molecular mass of 45.12 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 48 kDa band.

Product Information

Sequence Region	397-772
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 397-772 aa (Q86UE8) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human Serine/threonine-protein kinase tousled-like 2 (TLK2) fragment (residues 397-772), encompassing the complete protein kinase domain. This high-purity fragment serves as an essential tool for investigating kinase activity, chromatin assembly mechanisms, and DNA damage response pathways in biochemical and cellular studies. Serine/threonine-protein kinase tousled-like 2 (TLK2) is a crucial human enzyme involved in multiple nuclear processes including chromatin assembly, DNA replication, transcription, repair, and chromosome segregation. It phosphorylates chromatin assembly factors ASF1A and ASF1B, with phosphorylation of ASF1A preventing its degradation and enhancing chromatin assembly. TLK2 also functions as a negative regulator of amino acid starvation-induced autophagy. The protein localizes primarily to the nucleus and nucleoplasm, with dynamic cell cycle-dependent localization patterns observed in the perinuclear region during S phase and cytoplasmic intermediate filament system during G1 phase.