Recombinant FASTK protein (His tag)

Catalog Number	544974
Synonyms	FAST kinase
Species	Human
Expression System	E. coli
Accession	Q14296
Molecular Weight	Predictes a molecular mass of 54.28 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 54 kDa band.

Product Information

Sequence Region	84-549
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 84-549 aa (Q14296) 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 FASTK (Fas-activated serine/threonine kinase) Fragment (residues 84-549) is a high-purity protein designed for studying the RAP domain's role in apoptosis regulation and mitochondrial mRNA biogenesis. This 466-residue fragment is ideal for functional assays, domain-specific interactions, and exploring FASTK's dual roles in cellular processes. Fas-activated serine/threonine kinase (FASTK) is a multifunctional enzyme encoded by the FASTK gene in humans, with roles in apoptosis and mitochondrial RNA metabolism. It phosphorylates the splicing regulator TIA1 to promote inclusion of FAS exon 6, enhancing production of pro-apoptotic FAS receptor isoforms. Additionally, isoform 4 of FASTK localizes to the mitochondrial matrix and is essential for stabilizing mitochondrial-encoded mRNAs, particularly ND6, thereby regulating mitochondrial gene expression. The provided fragment spans residues 84-549, encompassing the RAP domain (477-535), enabling focused investigation into these critical functions without interference from other regions.