Recombinant FAKD5 protein (His tag)

Catalog Number	547577
Species	Human
Expression System	E. coli
Accession	Q7L8L6
Molecular Weight	Predictes a molecular mass of 10.28 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 10 kDa band.

Product Information

Sequence Region	694-764
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 694-764 aa (Q7L8L6) 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 FASTKD5 Fragment (694-764): A high-purity protein fragment derived from human FAST kinase domain-containing protein 5, mitochondrial. This 71-amino acid fragment fully encompasses the RAP domain, making it an essential tool for investigating mitochondrial mRNA processing mechanisms in targeted research applications. FAST kinase domain-containing protein 5 (FASTKD5) is a mitochondrial protein that plays a critical role in the processing of non-canonical mitochondrial mRNA precursors, contributing to mitochondrial gene expression regulation. The protein localizes to the mitochondrial matrix and mitochondrial nucleoids, specifically residing in mitochondrial RNA granules near nucleoids, indicating its direct involvement in mitochondrial RNA metabolism. This fragment containing the RAP domain enables focused study of this specific functional region's contribution to FASTKD5's RNA processing activities within the mitochondrial environment.