Recombinant TTC19 protein (His tag)

Catalog Number	542887
Synonyms	TPR repeat protein 19
Species	Human
Expression System	E. coli
Accession	Q6DKK2
Molecular Weight	Predictes a molecular mass of 35.22 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 39 kDa band.

Product Information

Sequence Region	87-380
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 87-380 aa (Q6DKK2) 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 TTC19 (87-380) is a high-purity protein fragment derived from Tetratricopeptide repeat protein 19, mitochondrial, designed for structural and functional studies. This 294-amino acid fragment offers a stable and soluble unit ideal for investigating the protein's role in maintaining mitochondrial respiratory complex III integrity. The full-length Tetratricopeptide repeat protein 19 (TTC19) is a mitochondrial inner membrane protein essential for preserving the structural and functional integrity of mitochondrial respiratory complex III. It facilitates the physiological turnover of the Rieske protein UQCRFS1 and is involved in clearing UQCRFS1 N-terminal fragments, which are detrimental to complex III catalytic activity when accumulated. This protein plays a critical role in mitochondrial respiratory chain function, with implications for cellular energy metabolism and related disorders.