Recombinant ZCHC8 protein (His tag)

Catalog Number	545204
Synonyms	TRAMP-like complex RNA-binding factor ZCCHC8
Species	Human
Expression System	E. coli
Accession	Q6NZY4
Molecular Weight	Predictes a molecular mass of 43.27 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 47 kDa band.

Product Information

Sequence Region	46-407
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 46-407 aa (Q6NZY4) 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	This product is a recombinant fragment of the human Zinc finger CCHC domain-containing protein 8 (ZCCHC8), spanning amino acids 46-407. As a key scaffolding subunit of the nuclear exosome targeting (NEXT) complex, this stable and soluble fragment is ideal for investigating RNA surveillance, degradation mechanisms, and telomerase regulation in structural and biochemical studies. Zinc finger CCHC domain-containing protein 8 (ZCCHC8) functions as a scaffolding subunit of the trimeric nuclear exosome targeting (NEXT) complex, which plays a critical role in the surveillance and turnover of aberrant transcripts and non-coding RNAs. The NEXT complex directs short-lived RNAs for degradation by the RNA exosome, contributing to RNA quality control. Additionally, ZCCHC8 is essential for the 3'-end maturation of the telomerase RNA component (TERC), targeting it to the nuclear RNA exosome and supporting telomerase function, which is vital for telomere maintenance. It may also be involved in pre-mRNA splicing processes. Subcellularly, ZCCHC8 localizes to the nucleus and nucleoplasm but is excluded from the nucleolus, highlighting its nuclear-specific activities in RNA metabolism.