Recombinant CA053 protein (His tag)

Catalog Number	552046
Species	Human
Expression System	E. coli
Accession	Q5VUE5
Molecular Weight	Predictes a molecular mass of 9.86 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 10 kDa band.

Product Information

Sequence Region	71-145
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 71-145 aa (Q5VUE5) 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 high-quality recombinant protein fragment of human Uncharacterized protein C1orf53 (residues 71-145). The 75-amino acid fragment was computationally designed for optimal stability and solubility, making it an ideal reagent for structural biology studies, antibody development, and functional characterization of this novel protein. The full-length protein, encoded by the C1orf53 gene, is currently classified as uncharacterized. As its name indicates, its specific biological function and subcellular localization within human cells have not yet been experimentally determined. Research into proteins like C1orf53 is crucial for expanding the functional annotation of the human genome and discovering novel cellular pathways or regulatory mechanisms. This recombinant fragment provides a foundational tool to initiate such investigations.