Recombinant CROL2 protein (His tag)

Catalog Number	551729
Synonyms	Ciliary rootlet coiled-coil protein pseudogene 3
Species	Human
Expression System	E. coli
Accession	Q8IVE0
Molecular Weight	Predictes a molecular mass of 22.37 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 26 kDa band.

Product Information

Sequence Region	1-176
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 1-176 aa (Q8IVE0) 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 the human Putative Ciliary Rootlet Coiled-Coil Protein-like 2 (CROCCP3). The fragment, encompassing residues 1-176, has been computationally designed for optimal stability and solubility, making it an ideal reagent for structural biology studies and functional characterization. The full-length protein, encoded by the gene CROCCP3, is annotated as a putative ciliary rootlet coiled-coil protein. Ciliary rootlet proteins are structural components that anchor cilia and flagella to the cell body, playing crucial roles in cellular motility, sensory perception, and signaling. While the specific molecular function and subcellular localization details for this particular protein are still under investigation, proteins in this family are fundamental to the assembly and maintenance of cilia, organelles implicated in a wide range of developmental processes and human diseases (ciliopathies). This recombinant fragment provides a focused tool to advance the biochemical and structural understanding of this protein.