Recombinant CMS1 protein (His tag)

Catalog Number	550223
Synonyms	Cms1 ribosomal small subunit homolog
Species	Human
Expression System	E. coli
Accession	Q9BQ75
Molecular Weight	Predictes a molecular mass of 24.98 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 25 kDa band.

Product Information

Sequence Region	77-279
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 77-279 aa (Q9BQ75) 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 CMSS1 (Cms1 ribosomal small subunit homolog) fragment (residues 77-279) is a high-purity, stable protein designed for structural and biochemical studies. This 203-amino acid fragment was computationally optimized for solubility and stability, making it ideal for research applications requiring reliable protein performance. The full-length CMSS1 protein is a human homolog of the ribosomal small subunit, though specific functional details and subcellular localization are still under investigation. As a ribosomal homolog, it is presumed to play a role in ribosome-related processes, potentially influencing translation or ribosome assembly pathways. This recombinant fragment provides a focused tool for elucidating CMSS1's molecular mechanisms and interactions in cellular systems.