Recombinant CNNM4 protein (His tag)

Catalog Number	545213
Synonyms	Ancient conserved domain-containing protein 4; Cyclin-M4
Species	Human
Expression System	E. coli
Accession	Q6P4Q7
Molecular Weight	Predictes a molecular mass of 16.40 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 16 kDa band.

Product Information

Sequence Region	45-178
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 45-178 aa (Q6P4Q7) 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 Metal transporter CNNM4 (Cyclin-M4), spanning residues 45-178. It represents a stable and soluble unit of the protein, ideal for structural studies and biochemical assays investigating its role in metal transport and sensory neuron functions. The full-length CNNM4 protein, encoded by the gene CNNM4, is a probable metal transporter localized to the cell membrane as a multi-pass membrane protein. It is implicated in biomineralization and retinal function, with interactions involving the metal ion chaperone COX11 suggesting a potential role in sensory neuron processes. These functions highlight its importance in cellular metal homeostasis and neurological health.