Recombinant CHMP6 protein (His tag)

Catalog Number	540988
Synonyms	Chromatin-modifying protein 6; Vacuolar protein sorting-associated protein 20; Vps20; hVps20
Species	Human
Expression System	E. coli
Accession	Q96FZ7
Molecular Weight	Predictes a molecular mass of 21.20 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 24 kDa band.

Product Information

Sequence Region	2-166
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 2-166 aa (Q96FZ7) 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 Charged Multivesicular Body Protein 6 (CHMP6) Fragment (aa 2-166) – a highly stable and soluble human protein fragment designed for structural and biochemical studies. This product represents a key component of the ESCRT-III complex, essential for endosomal sorting and membrane remodeling processes, offering researchers a reliable tool for investigating intracellular trafficking mechanisms. Charged Multivesicular Body Protein 6 (CHMP6), also known as Chromatin-modifying Protein 6 or Vacuolar Protein Sorting-associated Protein 20 (Vps20), functions as a core component of the Endosomal Sorting Required for Transport complex III (ESCRT-III). This complex plays a critical role in the formation of multivesicular bodies (MVBs), which are involved in sorting endosomal cargo proteins into intraluminal vesicles for eventual degradation in lysosomes. The ESCRT machinery, including CHMP6, is also essential for topologically similar membrane fission events such as cytokinesis and viral budding processes. CHMP6 localizes to endosomal membranes, where it serves as an acceptor for the ESCRT-II complex, facilitating the sequential assembly of ESCRT components necessary for vesicle extrusion and membrane fission activities in conjunction with VPS4 ATPase.