Recombinant CHM4B protein (His tag)

Catalog Number	543612
Synonyms	Chromatin-modifying protein 4b; CHMP4b; SNF7 homolog associated with Alix 1; SNF7-2; hSnf7-2; Vacuolar protein sorting-associated protein 32-2; Vps32-2; hVps32-2
Species	Human
Expression System	E. coli
Accession	Q9H444
Molecular Weight	Predictes a molecular mass of 21.44 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 26 kDa band.

Product Information

Sequence Region	2-178
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 2-178 aa (Q9H444) 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 4b (CHMP4b) fragment (residues 2-178) from Homo sapiens, produced to support studies on endosomal sorting, multivesicular body formation, and membrane dynamics. This stable, soluble fragment is ideal for structural and biochemical investigations. CHMP4b is a core component of the endosomal sorting required for transport complex III (ESCRT-III), essential for multivesicular body (MVB) formation and sorting of endosomal cargo into intraluminal vesicles for lysosomal degradation. It also participates in topologically equivalent membrane fission events, including cytokinesis, nuclear envelope sealing during anaphase, and the budding of enveloped viruses like HIV-1. The protein localizes to the cytoplasm, cytosol, late endosome membrane (as a peripheral membrane protein), midbody, and nuclear envelope, where it facilitates critical cellular processes. This recombinant fragment (residues 2-178) represents a stable, soluble unit for experimental applications, based on computational predictions.