Recombinant CHM2B protein (His tag)

Catalog Number	541570
Synonyms	CHMP2.5; Chromatin-modifying protein 2b; CHMP2b; Vacuolar protein sorting-associated protein 2-2; Vps2-2; hVps2-2
Species	Human
Expression System	E. coli
Accession	Q9UQN3
Molecular Weight	Predictes a molecular mass of 20.79 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	2-168
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 2-168 aa (Q9UQN3) 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 2b (CHMP2B) Fragment (aa 2-168) is a high-purity, soluble protein derived from human CHMP2B, designed for structural and biochemical studies. This fragment represents a stable, functionally relevant region ideal for investigating ESCRT-III complex dynamics and endosomal sorting mechanisms. Charged Multivesicular Body Protein 2b (CHMP2B) is a core component of the endosomal sorting required for transport complex III (ESCRT-III), which plays a critical role in multivesicular body (MVB) formation and the sorting of endosomal cargo proteins into intraluminal vesicles (ILVs). These MVBs facilitate the degradation of membrane proteins, lysosomal enzymes, and lipids via delivery to lysosomes. CHMP2B is also involved in topologically equivalent membrane fission events, including cytokinesis and the budding of enveloped viruses such as HIV-1. The protein localizes to the cytoplasm, cytosol, and late endosome membrane as a peripheral membrane protein, underscoring its importance in cellular membrane remodeling processes.