

CHMP4B Protein, Human (His, Strep)

Cat. No.:	HY-P702051
Synonyms:	CHMP4B; Charged multivesicular body protein 4b; 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
Source:	E. coli
Accession:	Q9H444 (M1-M224)
Gene ID:	128866
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	<p>The CHMP4B protein stands out as a probable core component of the endosomal sorting required for transport complex III (ESCRT-III), playing a pivotal role in the formation of multivesicular bodies (MVBs) and the sorting of endosomal cargo proteins into these structures. MVBs, containing intraluminal vesicles (ILVs), are crucial for the degradation of membrane proteins like growth factor receptors, lysosomal enzymes, and lipids as they are delivered to lysosomes. The ESCRT-III complex, of which CHMP4B is a part, dissociates from the invaginating membrane before the ILV is released. Beyond its involvement in endosomal sorting, CHMP4B, in conjunction with SPAST, contributes to nuclear envelope sealing and mitotic spindle disassembly during late anaphase. Additionally, CHMP4B plays a role in membrane fission events such as the budding of enveloped viruses, including HIV-1, interacting with PDCD6IP during HIV-1 p6- and p9-dependent virus release. The intricate functions of CHMP4B underscore its versatility in mediating crucial cellular processes.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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