CHMP6 Protein, Human (His, Strep)

Cat. No.:	HY-P702053
Synonyms:	CHMP6; Charged multivesicular body protein 6; Chromatin-modifying protein 6; Vacuolar protein sorting-associated protein 20; Vps20; hVps20
Species:	Human
Source:	E. coli
Accession:	Q96FZ7 (M1-S201)
Gene ID:	79643
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.
Reconsititution	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	The CHMP6 protein stands 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 vital for the degradation of membrane proteins like growth factor receptors, lysosomal enzymes, and lipids, as they are transported to lysosomes. The MVB pathway involves the sequential function of ESCRT-O, -I, -II, and -III complexes, with ESCRT-III proteins dissociating from the invaginating membrane before ILV release. Notably, CHMP6 is integral to topologically equivalent membrane fission events, participating in the terminal stages of cytokinesis and the budding of enveloped viruses, including HIV-1 and other lentiviruses. Within the ESCRT-III complex, CHMP6 likely serves as an acceptor for the ESCRT-II complex on endosomal membranes, facilitating vesicle extrusion and membrane fission activities, possibly in conjunction with the AAA ATPase VPS4. Its interactions with VPS4A, VPS4B, CHMP4A, CHMP4B, CHMP4C, SNF8, VPS25, and VPS36 highlight its intricate involvement in the ESCRT machinery, contributing to various cellular processes.

Caution: Product has not been fully validated for medical applications. For research use only.

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