
Product Data Sheet

Product Name: CHMP2A Human
 Cat. No.: GP23149
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Charged multivesicular body protein 2a; Chromatin-modifying protein 2a; Vacuolar protein-sorting-associated protein 2-1; Putative breast adenocarcinoma marker BC-2; Vps2-1; hVps2-1; CHMP2A; BC2; CHMP2; BC-2; VPS2; VPS2A.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MDLLFGRRKT PEELLRQNQR ALNRAMRELD RERQKLETQE KKIIADIKKM AKQGQMDAVR IMAKDLVRTR RYVRKFLMR ANIQAVSLKI QTLKSNSMA QAMKGVTKAM GTMNRQLKLP QIQKIMMEFE RQAEIMDMKE EMMNDAIDDA MGDEEDEEES DAVVSQVLDE LGLSLTDELS NLPSTGGSL S VAAGGKKA EA AASALADADA DLEERLKNLR RD.		
Formulation	The CHMP2A solution contains 20mM Tris-HCl buffer (pH8.0) , 0.1M NaCl 1mM DTT, and 30% glycerol.		

Introduction

Chromatin modifying protein 2A (CHMP2A) is a member of the SNF7 family and it is a component of the ESCRT III complex, which is required for MVBs (multivesicular bodies) formation and sorting of endosomal cargo proteins into MVBs. The MVB pathway mediates release of transmembrane proteins into the lumen of the lysosome for degradation. The MVB pathway requires the sequential function of ESCRT-O, -I, -II and -III complexes. ESCRT-III proteins generally detach from the invaginating membrane before the ILV (intraluminal vesicles) is released. ESCRT-III proteins are thought to mediate the basic vesicle extrusion and/or membrane fission activities, probably in conjunction with the AAA ATPase VPS4.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

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

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

CHMP2A Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 242 amino acids (1-222 a.a.) and having a molecular mass of 27.2 kDa. The CHMP2A is purified by proprietary chromatographic techniques.

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