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## Product Data Sheet

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Product Name: CHMP4A Human  
 Cat. No.: GP23151  
 Batch No.: 1

### Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Charged multivesicular body protein 4A; C14orf123; HSPC134; VPS32A; Vacuolar protein sorting-associated protein 32-1; chromatin modifying protein 4A; SHAX2; SNF7-1; SNF7 homolog associated with Alix-2; chromosome 14 open reading frame 123; CHMP4B; CHMP4a.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MSRRRPEDGL GKAGPCVMRH HPPRSKAEVW RTLRGGGGRG ELAMSGLGRL FGKKGKKEKGP TPEEAIQKLK ETEKILIKKQ EFLEQKIQQE LQTAKKYGTK NKRAALQALR RKKRFEQQLA QTDGTLSTLE FQREAIENAT TNAEVLRTME LAAQSMKKAY QDMDIDKVDE LMTDITEQQE VAQQISDAIS RPMGFGDDVD EDELLEEELE LEQEELAQEL LNVGDKEEEP SVKLPSVPST HLPAGPAPKV DEDEEALKQL AEWVS		
Formulation	The CHMP4A solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 200mM NaCl, 0.1mMPMSF, 1mM EDTA, 2mM DTT and 50% glycerol.		

### Introduction

CHMP4A is a member of the SNF7 family and operates as chromatin-modifying protein. CHMP4A is a key component of the endosomal sorting vital for transport complex III (ESCRT-III) which takes part in multivesicular bodies (MVBs) formation and sorting of endosomal cargo proteins into MVBs. Additionally, during HIV-1 infection, the virus utilizes the ESCRT-III complex to facilitate budding and exocytosis of viral proteins through the connection of CHMP4 and a protein engaged by HIV-1 p6, which exists in viral Gag assembly and budding. CHMP4A is expressed in higher quantities in skeletal muscle, kidney, liver and heart.

### 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

CHMP4A Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 285 amino acids (1-265 and having a molecular mass of 32.0kDa. CHMP4A is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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