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# Datasheet for ABIN3137107 CHMP4C Protein (AA 1-232) (His tag)

1 Image



Overview

Quantity:	1 mg
Target:	CHMP4C
Protein Characteristics:	AA 1-232
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CHMP4C protein is labelled with His tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys)
Product Details	
Sequence:	MSKLGKFFKG TRSSRARAAP SAQEALARLR ETEEMLAKKQ EYLENRIQRE LALAKKHGSQ
	NKRAALQALK RKKRFEKQLT QVDGTLSTIE FQREALENSH TNTEVLRNMG FAAKAMKAVH
	DNMDLNKIDD LMQDITEQQD IAQEISEAFS QRVQFADGFD EAELLAELEE LEQEELNKKM
	TSLELPNVPS SSLPAQPSRK ASMPSSVHRS RAASSRRAEE DDDFKQLAAW AT
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a

Characteristics:

• Made in Germany - from design to production - by highly experienced protein experts.

- Mouse Chmp4c Protein (raised in E. Coli) purified by multi-step, protein-specific process to ensure crystallization grade.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

special request, please contact us.

This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

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	The big advantage of ordering our made-to-order proteins in comparison to ordering custom
	made proteins from other companies is that there is no financial obligation in case the protein
	cannot be expressed or purified.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	The protein's absorbance will be measured in several dilutions and is measured against its
	specific reference buffer.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in bacterial culture:
	<ol> <li>In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.</li> </ol>
	2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Endotoxin has not been removed. Please contact us if you require endotoxin removal.
Grade:	Crystallography grade
Target Details	
Target:	CHMP4C

Alternative Name:	Chmp4c (CHMP4C Products)
Background:	Probable core component of the endosomal sorting required for transport complex III (ESCRT-
	III) which is involved in multivesicular bodies (MVBs) formation and sorting of endosomal cargo
	proteins into MVBs. MVBs contain intraluminal vesicles (ILVs) that are generated by

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	invagination and scission from the limiting membrane of the endosome and mostly are
	delivered to lysosomes enabling degradation of membrane proteins, such as stimulated growth
	factor receptors, lysosomal enzymes and lipids. The MVB pathway appears to require the
	sequential function of ESCRT-0, -I,-II and -III complexes. ESCRT-III proteins mostly dissociate
	from the invaginating membrane before the ILV is released. The ESCRT machinery also
	functions in topologically equivalent membrane fission events, such as the terminal stages of
	cytokinesis. Key component of the cytokinesis checkpoint, a process required to delay
	abscission to prevent both premature resolution of intercellular chromosome bridges and
	accumulation of DNA damage: upon phosphorylation by AURKB, together with
	ZFYVE19/ANCHR, retains abscission-competent VPS4 (VPS4A and/or VPS4B) at the midbody
	ring until abscission checkpoint signaling is terminated at late cytokinesis. Deactivation of
	AURKB results in dephosphorylation of CHMP4C followed by its dissociation from ANCHR and
	VPS4 and subsequent abscission. ESCRT-III proteins are believed to mediate the necessary
	vesicle extrusion and/or membrane fission activities, possibly in conjunction with the AAA
	ATPase VPS4. CHMP4A/B/C are required for the exosomal release of SDCBP, CD63 and
	syndecan (By similarity). {ECO:0000250 UniProtKB:Q96CF2}.
Molecular Weight:	27.2 kDa Including tag.
U. Durati	000767

UniProt:

Q9D7F7

### Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

# Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.

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### Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

### Images



**Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process

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