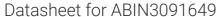
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CHMP4C Protein (AA 1-233) (Strep Tag)



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Overview

Quantity:	1 mg
Target:	CHMP4C
Protein Characteristics:	AA 1-233
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CHMP4C protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:

MSKLGKFFKG GGSSKSRAAP SPQEALVRLR ETEEMLGKKQ EYLENRIQRE IALAKKHGTQ NKRAALQALK RKKRFEKQLT QIDGTLSTIE FQREALENSH TNTEVLRNMG FAAKAMKSVH ENMDLNKIDD LMQEITEQQD IAQEISEAFS QRVGFGDDFD EDELMAELEE LEQEELNKKM TNIRLPNVPS SSLPAQPNRK PGMSSTARRS RAASSQRAEE EDDDIKQLAA WAT

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- · These proteins are normally active (enzymatically functional) as our customers have

reported (not tested by us and not guaranteed).

• State-of-the-art algorithm used for plasmid design (Gene synthesis).

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.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- 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.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

- 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
- 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:

>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Endotoxin Level:

Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Target Details

Target:	CHMP4C
Alternative Name:	CHMP4C (CHMP4C Products)
Background:	Charged multivesicular body protein 4c (Chromatin-modifying protein 4c) (CHMP4c) (SNF7
	homolog associated with Alix 3) (SNF7-3) (hSnf7-3) (Vacuolar protein sorting-associated
	protein 32-3) (Vps32-3) (hVps32-3),FUNCTION: 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 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-O, -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 and the budding of enveloped viruses
	(HIV-1 and other lentiviruses). 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 (PubMed:22422861, PubMed:24814515). ESCRT-III proteins
	are believed to mediate the necessary vesicle extrusion and/or membrane fission activities,
	possibly in conjunction with the AAA ATPase VPS4. Involved in HIV-1 p6- and p9-dependent
	virus release. CHMP4A/B/C are required for the exosomal release of SDCBP, CD63 and
	syndecan (PubMed:22660413). {ECO:0000269 PubMed:14505569,
	ECO:0000269 PubMed:14505570, ECO:0000269 PubMed:14519844,
	ECO:0000269 PubMed:22422861, ECO:0000269 PubMed:22660413,
	ECO:0000269 PubMed:24814515}.
Molecular Weight:	26.4 kDa
UniProt:	Q96CF2
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

Application Details

Application betails		
	guarantee though.	
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!	
Restrictions: Handling	For Research Use only	
Format:	Liquid	
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.	
Handling Advice:	Avoid repeated freeze-thaw cycles.	
Storage:	-80 °C	
Storage Comment:	Store at -80°C.	
Expiry Date:	Unlimited (if stored properly)	