antibodies

Datasheet for ABIN3081548 PSMC3IP Protein (AA 1-217) (Strep Tag)



Overview

Image

Quantity:	1 mg
Target:	PSMC3IP
Protein Characteristics:	AA 1-217
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PSMC3IP protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MSKGRAEAAA GAAGILLRYL QEQNRPYSSQ DVFGNLQREH GLGKAVVVKT LEQLAQQGKI
	KEKMYGKQKI YFADQDQFDM VSDADLQVLD GKIVALTAKV QSLQQSCRYM EAELKELSSA
	LTTPEMQKEI QELKKECAGY RERLKNIKAA TNHVTPEEKE QVYRERQKYC KEWRKRKRMA
	TELSDAILEG YPKSKKQFFE EVGIETDEDY NVTLPDP
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expressior
	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 Correspond from design to production, by highly synarished protein synarts
	 Made in Germany - from design to production - by highly experienced protein experts.
	 Made in Germany - from design to production - by highly experienced protein expense. Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure

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• 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 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!

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.
	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:	>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)

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Product Details

Grade:

Crystallography grade

Target Details

Target:	PSMC3IP
Alternative Name:	PSMC3IP (PSMC3IP Products)
Background:	Homologous-pairing protein 2 homolog (Nuclear receptor coactivator GT198) (PSMC3-
	interacting protein) (Proteasome 26S ATPase subunit 3-interacting protein) (Tat-binding protein
	1-interacting protein) (TBP-1-interacting protein),FUNCTION: Plays an important role in meiotic
	recombination. Stimulates DMC1-mediated strand exchange required for pairing homologous
	chromosomes during meiosis. The complex PSMC3IP/MND1 binds DNA, stimulates the
	recombinase activity of DMC1 as well as DMC1 D-loop formation from double-strand DNA. This
	complex stabilizes presynaptic RAD51 and DMC1 filaments formed on single strand DNA to
	capture double-strand DNA. This complex stimulates both synaptic and presynaptic critical
	steps in RAD51 and DMC1-promoted homologous pairing. May inhibit HIV-1 viral protein TAT
	activity and modulate the activity of proteasomes through association with PSMC3. Acts as a
	tissue specific coactivator of hormone-dependent transcription mediated by nuclear receptors.
	{ECO:0000269 PubMed:10806355, ECO:0000269 PubMed:16407260,
	ECO:0000269 PubMed:21963259}.
Molecular Weight:	24.9 kDa
UniProt:	Q9P2W1
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
	as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	
Comment:	guarantee though.
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Application Details	
	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:	For Research Use only
Handling	
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)

Images

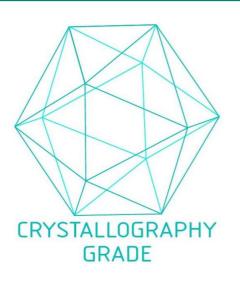


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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