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Datasheet for ABIN3136219

PSD4 Protein (AA 1-1005) (Strep Tag)

Overview

Quantity:	1 mg
Target:	PSD4
Protein Characteristics:	AA 1-1005
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PSD4 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MMGDHLRPME CLNICLEDNL QPCPEAYPSE IHGHPGPSEP CQEHTCPFDP PESARPDAPH GNSGVESTHL ENCLVQVQAR QASASLRSLE DNSSLGSPQQ NQSSSTQVVF WAGILQAQMC VLDLEEELEK TEGLRAELRC CIPPPSKDLL GDEGLSPSRP EEEDSGDDS SGPEEENQTW PREKIPGSSL EWGAEEDSIF FDNPLFLESP CSDTSTEGEC FSWGYPNSHP DMKTWHQSPQ TLDSPKQGT GLWRQENELD LGSDTADHGG CSTPPFPVPS YKMHPCALG STEGDPTVPP DQGETSCED DLGHGSPKAP FVDHELIQES DNFEFDLRPA TTHPVQPWGS QTSQSLSDLT QPILEDLQRE DPSRSQETLI SQNRGERDAG CFQEPVFCTL APWGSQTSLL EPNCPESEGR GSGPQPSPVS SQDSSPRVLL HSPKWPQDAS HLLQKDRSEL SSLKEEETEE VPSLRQEAEC EDTSRSEDAS ANQHHVHLAS AEGLPESPMP QAQSPEEGWR PSSSREKLAN DIRNDKGAWN LALRLYQLNG FRKSEVAAHL RKNNDFSRAV AEAYLSFFQF EGQSLDRALR GFLQALVLSG ETQERERILY QFSKRPHYCN PGAFPSVDSV HTLTCAIMLL NTDLHGQNIG KSMSCQEFVT NLNGLQDGRN FPKELLKALY WSIRSEKLEW AIDEEDADRP EKQQPSPSAG KISSPFLQMA
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QDPTMPTYKQ GILARKMHHI ADGKKTPWGK RGWKMFTLL RGMVLYFLKG EGQWLDGESL
VGHMVDEPVG VHHSLASPAT HYTKKPHVFQ LRTADWRLYL FQAPTAKEMA SWIARINLAA
ATHSAPPFPA AVGSQRRFVR PILPMSPVQS SLEEQRHSHE NCLDAASDDL LDLQRNLPER
RGRSRELEEEY RLRKEYLEHE KTRYETYVQL LVARLHFPLG DLALWEDQLG KETDGSQEPR
PSLKKSHSSP SLHQEEAPTT AKVKRNISSR RTYRKIIPKR NRNQL

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 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

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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)
Grade:	Crystallography grade

Target Details

Target:	PSD4
Alternative Name:	Psd4 (PSD4 Products)
Background:	PH and SEC7 domain-containing protein 4 (Exchange factor for ADP-ribosylation factor guanine nucleotide factor 6 B) (Exchange factor for ARF6 B) (Pleckstrin homology and SEC7 domain-containing protein 4),FUNCTION: Guanine nucleotide exchange factor for ARF6 and ARL14/ARF7. Through ARL14 activation, controls the movement of MHC class II-containing vesicles along the actin cytoskeleton in dendritic cells. Involved in membrane recycling. Interacts with several phosphatidylinositol phosphate species, including phosphatidylinositol 3,4-bisphosphate, phosphatidylinositol 3,5-bisphosphate and phosphatidylinositol 4,5-bisphosphate (By similarity). {ECO:0000250}.
Molecular Weight:	112.7 kDa
UniProt:	Q8BLR5

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 guarantee though.
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Application Details

Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
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Restrictions:	For Research Use only
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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)