antibodies

Datasheet for ABIN3077591 SRP68 Protein (AA 1-627) (Strep Tag)



Overview

Quantity:	1 mg
Target:	SRP68
Protein Characteristics:	AA 1-627
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SRP68 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MAAEKQVPGG GGGGGGGGGGG GSGGGGGGGGGGGGGGEENKE NERPSAGSKA NKEFGDSLSL
	EILQIIKESQ QQHGLRHGDF QRYRGYCSRR QRRLRKTLNF KMGNRHKFTG KKVTEELLTD
	NRYLLLVLMD AERAWSYAMQ LKQEANTEPR KRFHLLSRLR KAVKHAEELE RLCESNRVDA
	KTKLEAQAYT AYLSGMLRFE HQEWKAAIEA FNKCKTIYEK LASAFTEEQA VLYNQRVEEI
	SPNIRYCAYN IGDQSAINEL MQMRLRSGGT EGLLAEKLEA LITQTRAKQA ATMSEVEWRG
	RTVPVKIDKV RIFLLGLADN EAAIVQAESE ETKERLFESM LSECRDAIQV VREELKPDQK
	QRDYILEGEP GKVSNLQYLH SYLTYIKLST AIKRNENMAK GLQRALLQQQ PEDDSKRSPR
	PQDLIRLYDI ILQNLVELLQ LPGLEEDKAF QKEIGLKTLV FKAYRCFFIA QSYVLVKKWS
	EALVLYDRVL KYANEVNSDA GAFKNSLKDL PDVQELITQV RSEKCSLQAA AILDANDAHQ
	TETSSSQVKD NKPLVERFET FCLDPSLVTK QANLVHFPPG FQPIPCKPLF FDLALNHVAF
	PPLEDKLEQK TKSGLTGYIK GIFGFRS
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression

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	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 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

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 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:	SRP68
Alternative Name:	SRP68 (SRP68 Products)
Background:	Signal recognition particle subunit SRP68 (SRP68) (Signal recognition particle 68 kDa
	protein),FUNCTION: Component of the signal recognition particle (SRP) complex, a
	ribonucleoprotein complex that mediates the cotranslational targeting of secretory and
	membrane proteins to the endoplasmic reticulum (ER) (PubMed:34020957). The SRP comple
	interacts with the signal sequence in nascent secretory and membrane proteins and directs
	them to the membrane of the ER (PubMed:34020957). The SRP complex targets the ribosome
	nascent chain complex to the SRP receptor (SR), which is anchored in the ER, where SR
	compaction and GTPase rearrangement drive cotranslational protein translocation into the EF
	(PubMed:34020957). Binds the signal recognition particle RNA (7SL RNA), SRP72 binds to this
	complex subsequently (PubMed:16672232, PubMed:27899666). The SRP complex possibly
	participates in the elongation arrest function (By similarity). {ECO:0000250 UniProtKB:P38687
	EC0:0000269 PubMed:16672232, EC0:0000269 PubMed:27899666,
	ECO:0000269 PubMed:34020957}.
Molecular Weight:	70.7 kDa
JniProt:	Q9UHB9
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.
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

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	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:	For Research Use only
Llondling	
Handling	
Format:	Liquid
	Liquid The buffer composition is at the discretion of the manufacturer. If you have a special request,
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Format:	The buffer composition is at the discretion of the manufacturer. If you have a special request,
Format: Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Format: Buffer: Handling Advice:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us. Avoid repeated freeze-thaw cycles.