

Datasheet for ABIN3122070 SPG7 Protein (AA 1-781) (Strep Tag)



Overview

Quantity:	250 µg
Target:	SPG7
Protein Characteristics:	AA 1-781
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SPG7 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MAAALLLLRG LRPGPEPRPR RLWGLLSGRG PGLSSGAGAR RPYAARGTPV GPAAAGGHAP
	QSLLLRILTP SFEGISGLLL KQHIVPNAVR LWPLSGSTLY FNTSRMKQKN KDNDKPKGKT
	PEDDEEEKRR KEREDQMYRE RLRTLFIIAL VMSLLNSLST SGGSISWADF VNEMLAKGEV
	QRVQVVPESD VVEVYLHPGA VVFGRPRLAL MYRMQVANID KFEEKLRAAE DELNIESKDR
	IPVSYKRTGF FGNALYALGM TAVGLAILWY VFRLAGMTGR EGGFSAFNQL KMARFTIVDG
	KTGKGVSFQD VAGMHEAKLE VREFVDYLKS PERFLQLGAK VPKGALLLGP PGCGKTLLAK
	AVATEAQVPF LAMAGPEFVE VIGGLGAARV RSLFKEARAR APCIVYIDEI DAVGKKRSTS
	MSGFSNTEEE QTLNQLLVEM DGMGTTDHVI VLASTNRADV LDNALMRPGR LDRHVFIDLP
	TLQERREIFE QHLKGLKLTQ PSSFYSQRLA ELTPGFSGAD IANICNEAAL HAAREGHTSV
	HTFNFEYAVE RVIAGTAKKS KILSKEEQRV VAFHESGHAL VGWLLEHTEA VMKVSIAPRT
	NAALGFSQML PRDQYLFTKE QLFERMCMAL GGRAAEAISF SRVTSGAQDD LRKVTRIAYS

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3122070 | 02/25/2025 | Copyright antibodies-online. All rights reserved. MVKQFGMAPS IGPVSFPEAQ EGLMGIGRRP FSQGLQQMMD HEAKLLVAKA YRHTEKVLLD NLDKLQALAN ALLEKEVINY EDIEALIGPP PHGPKKMIAP QKWIDAEKER QASGEEEAPA P 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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).

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Product Details

Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	SPG7
Alternative Name:	Spg7 (SPG7 Products)
Background:	Paraplegin (EC 3.4.24) (Spastic paraplegia 7 protein),FUNCTION: ATP-dependent zinc
	metalloprotease. Plays a role in the formation and regulation of the mitochondrial permeability
	transition pore (mPTP) and its proteolytic activity is dispensable for this function (By similarity)
	{ECO:0000250 UniProtKB:Q9UQ90, ECO:0000305}.
Molecular Weight:	86.0 kDa
UniProt:	Q3ULF4
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
	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
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.

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Handling

	Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months