

Datasheet for ABIN3094491 PAPSS2 Protein (AA 1-614) (Strep Tag)



Overview

Quantity:	250 µg
Target:	PAPSS2
Protein Characteristics:	AA 1-614
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PAPSS2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MSGIKKQKTE NQQKSTNVVY QAHHVSRNKR GQVVGTRGGF RGCTVWLTGL SGAGKTTISF
	ALEEYLVSHA IPCYSLDGDN VRHGLNRNLG FSPGDREENI RRIAEVAKLF ADAGLVCITS
	FISPFAKDRE NARKIHESAG LPFFEIFVDA PLNICESRDV KGLYKRARAG EIKGFTGIDS
	DYEKPETPER VLKTNLSTVS DCVHQVVELL QEQNIVPYTI IKDIHELFVP ENKLDHVRAE
	AETLPSLSIT KLDLQWVQVL SEGWATPLKG FMREKEYLQV MHFDTLLDDG VINMSIPIVL
	PVSAEDKTRL EGCSKFVLAH GGRRVAILRD AEFYEHRKEE RCSRVWGTTC TKHPHIKMVM
	ESGDWLVGGD LQVLEKIRWN DGLDQYRLTP LELKQKCKEM NADAVFAFQL RNPVHNGHAL
	LMQDTRRRLL ERGYKHPVLL LHPLGGWTKD DDVPLDWRMK QHAAVLEEGV LDPKSTIVAI
	FPSPMLYAGP TEVQWHCRSR MIAGANFYIV GRDPAGMPHP ETKKDLYEPT HGGKVLSMAP
	GLTSVEIIPF RVAAYNKAKK AMDFYDPARH NEFDFISGTR MRKLAREGEN PPDGFMAPKA
	WKVLTDYYRS LEKN

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 ABIN3094491 | 02/25/2025 | Copyright antibodies-online. All rights reserved. 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®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

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 2/4 | Product datasheet for ABIN3094491 | 02/25/2025 | Copyright antibodies-online. All rights reserved.

Product Details

Grade:

custom-made

Target Details

Target:	PAPSS2
Alternative Name:	PAPSS2 (PAPSS2 Products)
Background:	Bifunctional 3'-phosphoadenosine 5'-phosphosulfate synthase 2 (PAPS synthase 2) (PAPSS 2)
	(Sulfurylase kinase 2) (SK 2) (SK2) [Includes: Sulfate adenylyltransferase (EC 2.7.7.4) (ATP-
	sulfurylase) (Sulfate adenylate transferase) (SAT), Adenylyl-sulfate kinase (EC 2.7.1.25) (3'-
	phosphoadenosine-5'-phosphosulfate synthase) (APS kinase) (Adenosine-5'-phosphosulfate 3
	phosphotransferase) (Adenylylsulfate 3'-phosphotransferase)],FUNCTION: Bifunctional enzym
	with both ATP sulfurylase and APS kinase activity, which mediates two steps in the sulfate
	activation pathway. The first step is the transfer of a sulfate group to ATP to yield adenosine 5
	phosphosulfate (APS), and the second step is the transfer of a phosphate group from ATP to
	APS yielding 3'-phosphoadenylylsulfate/PAPS, the activated sulfate donor used by
	sulfotransferases (PubMed:19474428, PubMed:11773860, PubMed:23824674,
	PubMed:25594860). In mammals, PAPS is the sole source of sulfate while APS appears to onl
	be an intermediate in the sulfate-activation pathway (PubMed:19474428, PubMed:11773860,
	PubMed:23824674, PubMed:25594860). Plays indirectly an important role in skeletogenesis
	during postnatal growth (PubMed:9771708). {ECO:0000269 PubMed:11773860,
	EC0:0000269 PubMed:19474428, EC0:0000269 PubMed:23824674,
	EC0:0000269 PubMed:25594860, EC0:0000269 PubMed:9771708}.
Molecular Weight:	69.5 kDa
UniProt:	095340
Pathways:	Glycosaminoglycan Metabolic Process, Ribonucleoside Biosynthetic Process
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.

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 3/4 | Product datasheet for ABIN3094491 | 02/25/2025 | Copyright antibodies-online. All rights reserved.

Application Details

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

Format:LiquidBuffer:The buffer composition is at the discretion of the manufacturer.
Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.Handling Advice:Avoid repeated freeze-thaw cycles.Storage:-80 °CStorage Comment:Store at -80°C.Expiry Date:12 months

For Research Use only