

# Datasheet for ABIN3077433 SPI1 Protein (AA 1-270) (Strep Tag)



Overview

Quantity:	250 μg
Target:	SPI1
Protein Characteristics:	AA 1-270
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SPI1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Brand:	AliCE®
Sequence:	MLQACKMEGF PLVPPPSEDL VPYDTDLYQR QTHEYYPYLS SDGESHSDHY WDFHPHHVHS
	EFESFAENNF TELQSVQPPQ LQQLYRHMEL EQMHVLDTPM VPPHPSLGHQ VSYLPRMCLQ
	YPSLSPAQPS SDEEEGERQS PPLEVSDGEA DGLEPGPGLL PGETGSKKKI RLYQFLLDLL
	RSGDMKDSIW WVDKDKGTFQ FSSKHKEALA HRWGIQKGNR KKMTYQKMAR ALRNYGKTGE
	VKKVKKKLTY QFSGEVLGRG GLAERRHPPH
	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.

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- 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 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 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).
Grade:	custom-made

### Target Details

Target:	SPI1
Alternative Name:	SPI1 (SPI1 Products)

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Target [	Details
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Background:	Transcription factor PU.1 (31 kDa-transforming protein),FUNCTION: Pioneer transcription
	factor, which controls hematopoietic cell fate by decompacting stem cell heterochromatin and
	allowing other transcription factors to enter otherwise inaccessible genomic sites. Once in ope
	chromatin, can directly control gene expression by binding genetic regulatory elements and ca
	also more broadly influence transcription by recruiting transcription factors, such as interferon
	regulatory factors (IRFs), to otherwise inaccessible genomic regions (PubMed:23658224,
	PubMed:33951726). Transcriptionally activates genes important for myeloid and lymphoid
	lineages, such as CSF1R (By similarity). Transcriptional activation from certain promoters,
	possibly containing low affinity binding sites, is achieved cooperatively with other transcription
	factors. FCER1A transactivation is achieved in cooperation with GATA1 (By similarity). May be
	particularly important for the pro- to pre-B cell transition (PubMed:33951726). Binds (via the
	ETS domain) onto the purine-rich DNA core sequence 5'-GAGGAA-3', also known as the PU-box
	(PubMed:33951726). In vitro can bind RNA and interfere with pre-mRNA splicing (By similarity)
	{ECO:0000250 UniProtKB:P17433, ECO:0000250 UniProtKB:Q6BDS1,
	ECO:0000269 PubMed:23658224, ECO:0000269 PubMed:33951726}.
Molecular Weight:	31.1 kDa
UniProt:	P17947
Pathways:	Stem Cell Maintenance
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.
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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

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### Handling

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