

Datasheet for ABIN3089240

SGEF Protein (AA 1-871) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	SGEF (ARHGEF26)
Protein Characteristics:	AA 1-871
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SGEF protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MDGESEVDFS SNSITPLWRR RSIPQPHQVL GRSKPRPQSY QSPNGLLITD FPVEDGGTLL</p> <p>AAQIPAQVPT ASDSRTVHRS PLLLGAQRRR VANGGTASPE YRAASPRLRR PKSPKLPKAV</p> <p>PGGSPKSPAN GAVTLPAPPP PPVLRPPRTP NAPAPCTPEE DLTGLTASPV PSPTANGLAA</p> <p>NNDSPGSGSQ SGRKAKDPER GLFPGPQKSS SEQKLPLQRL PSQENELLEN PSVVLSTNSP</p> <p>AALKVGKQOI IPKSLASEIK ISKSNNQNVE PHKRLKLVRS MVEGLGGPLG HAGEESEVDN</p> <p>DVDSPGSLRR GLRSTSYRRA VVSGFDFDSP TSSKKKNRMS QPVLKVVMED KEKFSSLGRI</p> <p>KKKMLKGQGT FDGEENAVLY QNYKEKALDI DSDEESEPKE QKSDEKIVIH HKPLRSTWSQ</p> <p>LSAVKRKGLS QTVSQEERKR QEAI FEVISS EHSYLLSLEI LIRMFKNSKE LSDTMTKTER</p> <p>HHLFSNITDV CEASKKFFIE LEARHQNNIF IDDISDIVEK HTASTFDPYV KYCTNEVYQQ</p> <p>RTLQKLLATN PSFKEVLSRI ESHEDCRNLP MISFLILPMQ RVTRLPLLMD TICQKTPKDS</p> <p>PKYEVCKRAL KEVSKLVRLC NEGARKMERT EMMYTINSQL EFKIKPFPLV SSSRWLVKRG</p>

ELTAYVEDTV LFSRRTSKQQ VYFFLFNDVL IITKKKSEES YNVNDYSLRD QLLVESCDNE
ELNSSPGKNS STMLYSRQSS ASHLFTLTVL SNHANKEKVM LLGAETQSER ARWITALGHS
SGKPPADRTS LTQVEIVRSF TAKQPDELSL QVADVVLIIQ RVSDGWYEGE RLRDGERGWF
PMECAKEITC QATIDKNVER MGRLLGLETN V

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 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.

Product Details

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:	SGEF (ARHGEF26)
Alternative Name:	ARHGEF26 (ARHGEF26 Products)
Background:	<p>Rho guanine nucleotide exchange factor 26 (SH3 domain-containing guanine exchange factor),FUNCTION: Activates RhoG GTPase by promoting the exchange of GDP by GTP. Required for the formation of membrane ruffles during macropinocytosis. Required for the formation of cup-like structures during trans-endothelial migration of leukocytes. In case of Salmonella enterica infection, activated by SopB, which induces cytoskeleton rearrangements and promotes bacterial entry. {ECO:0000269 PubMed:15133129, ECO:0000269 PubMed:17074883, ECO:0000269 PubMed:17875742}.</p>
Molecular Weight:	97.3 kDa
UniProt:	Q96DR7

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:	<p>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.</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>

Application Details

Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	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 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months