

# Datasheet for ABIN3095361 SGK3 Protein (AA 1-496) (Strep Tag)



Overview

Quantity:	250 µg
Target:	SGK3
Protein Characteristics:	AA 1-496
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SGK3 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

## Product Details

Brand:	AliCE®
Sequence:	MQRDHTMDYK ESCPSVSIPS SDEHREKKKR FTVYKVLVSV GRSEWFVFRR YAEFDKLYNT
	LKKQFPAMAL KIPAKRIFGD NFDPDFIKQR RAGLNEFIQN LVRYPELYNH PDVRAFLQMD
	SPKHQSDPSE DEDERSSQKL HSTSQNINLG PSGNPHAKPT DFDFLKVIGK GSFGKVLLAK
	RKLDGKFYAV KVLQKKIVLN RKEQKHIMAE RNVLLKNVKH PFLVGLHYSF QTTEKLYFVL
	DFVNGGELFF HLQRERSFPE HRARFYAAEI ASALGYLHSI KIVYRDLKPE NILLDSVGHV
	VLTDFGLCKE GIAISDTTTT FCGTPEYLAP EVIRKQPYDN TVDWWCLGAV LYEMLYGLPP
	FYCRDVAEMY DNILHKPLSL RPGVSLTAWS ILEELLEKDR QNRLGAKEDF LEIQNHPFFE
	SLSWADLVQK KIPPPFNPNV AGPDDIRNFD TAFTEETVPY SVCVSSDYSI VNASVLEADD
	AFVGFSYAPP SEDLFL
	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

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	have a special request, please contact us.
Characteristics:	Key Benefits:
	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Protein expressed with ALiCE® and purified in one-step affinity chromatography</li> <li>These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	This protein is a <b>made-to-order protein</b> 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 <b>made-to-order proteins</b> 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:
	<ul> <li>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.</li> <li>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!</li> </ul>
	Concentration:
	<ul> <li>The concentration of our recombinant proteins is measured using the absorbance at 280nm</li> <li>The protein's absorbance will be measured against its specific reference buffer.</li> <li>We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.</li> </ul>
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

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#### Target Details

Target:	SGK3
Alternative Name:	SGK3 (SGK3 Products)
Background:	Serine/threonine-protein kinase Sgk3 (EC 2.7.11.1) (Cytokine-independent survival kinase)
	(Serum/glucocorticoid-regulated kinase 3) (Serum/glucocorticoid-regulated kinase-
	like),FUNCTION: Serine/threonine-protein kinase which is involved in the regulation of a wide
	variety of ion channels, membrane transporters, cell growth, proliferation, survival and
	migration. Up-regulates Na(+) channels: SCNN1A/ENAC and SCN5A, K(+) channels:
	KCNA3/KV1.3, KCNE1, KCNQ1 and KCNH2/HERG, epithelial Ca(2+) channels: TRPV5 and
	TRPV6, chloride channel: BSND, creatine transporter: SLC6A8, Na(+)/dicarboxylate
	cotransporter: SLC13A2/NADC1, Na(+)-dependent phosphate cotransporter: SLC34A2/NAPI-
	2B, amino acid transporters: SLC1A5/ASCT2 and SLC6A19, glutamate transporters:
	SLC1A3/EAAT1, SLC1A6/EAAT4 and SLC1A7/EAAT5, glutamate receptors: GRIA1/GLUR1 and
	GRIK2/GLUR6, Na(+)/H(+) exchanger: SLC9A3/NHE3, and the Na(+)/K(+) ATPase. Plays a role
	in the regulation of renal tubular phosphate transport and bone density. Phosphorylates
	NEDD4L and GSK3B. Positively regulates ER transcription activity through phosphorylation of
	FLII. Negatively regulates the function of ITCH/AIP4 via its phosphorylation and thereby
	prevents CXCR4 from being efficiently sorted to lysosomes. {EC0:0000269 PubMed:1205450
	EC0:0000269 PubMed:12397388, EC0:0000269 PubMed:12590200,
	EC0:0000269 PubMed:12632189, EC0:0000269 PubMed:12634932,
	EC0:0000269 PubMed:12650886, EC0:0000269 PubMed:12911626,
	EC0:0000269 PubMed:14706641, EC0:0000269 PubMed:15040001,
	EC0:0000269 PubMed:15044175, EC0:0000269 PubMed:15319523,
	EC0:0000269 PubMed:15496163, EC0:0000269 PubMed:15737648,
	EC0:0000269 PubMed:15845389, EC0:0000269 PubMed:16036218,
	EC0:0000269 PubMed:16888620, EC0:0000269 PubMed:17167223,
	EC0:0000269 PubMed:18005662, EC0:0000269 PubMed:19293151,
	ECO:0000269 PubMed:20511718, ECO:0000269 PubMed:21865597}.
Molecular Weight:	57.1 kDa
UniProt:	Q96BR1
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.

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### Application Details

Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from
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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

## 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