

## Datasheet for ABIN3136244 Solute Carrier Family 17 (Acidic Sugar Transporter), Member 5 (SLC17A5) (AA 1-495) protein (Strep Tag)



Overview

Quantity:	250 µg
Target:	Solute Carrier Family 17 (Acidic Sugar Transporter), Member 5 (SLC17A5)
Protein Characteristics:	AA 1-495
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	Strep Tag
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Brand:	AliCE®
Sequence:	MRPLLRGPAG NDDEESSDST PLLPGARQTE AAPVCCSARY NLAILAFCGF FVLYALRVNL
	SVALVDMVDS NTTLTDNRTS KECAEHSAPI KVHHNHTGKK YKWDAETQGW ILGSFFYGYI
	VTQIPGGYIA SRVGGKLLLG LGILGTSVFT LFTPLAADLG VVTLVVLRAL EGLGEGVTFP
	AMHAMWSSWA PPLERSKLLT ISYAGAQLGT VISLPLSGII CYYMNWTYVF YLFGIVGIVW
	FILWMWIVSD TPETHKTISH YEKEYIVSSL KNQLSSQKVV PWGSILKSLP LWAIVVAHFS
	YNWSFYTLLT LLPTYMKEIL RFNVQENGFL SALPYFGCWL CMILCGQAAD YLRVKWNFST
	ISVRRIFSLV GMVGPAVFLV AAGFIGCDYS LAVAFLTIST TLGGFASSGF SINHLDIAPS
	YAGILLGITN TFATIPGMTG PIIAKSLTPD NTIREWQTVF CIAAAINVFG AIFFTLFAKG
	EVQSWALSDH HGHRN
	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:	Solute Carrier Family 17 (Acidic Sugar Transporter), Member 5 (SLC17A5)
Alternative Name:	Slc17a5 (SLC17A5 Products)
Background:	Sialin (H(+)/nitrate cotransporter) (H(+)/sialic acid cotransporter) (AST) (Solute carrier family 1
	member 5) (Vesicular excitatory amino acid transporter) (VEAT),FUNCTION: Multifunctional
	anion transporter that operates via two distinct transport mechanisms, namely proton-coupled
	anion cotransport and membrane potential-dependent anion transport (PubMed:18695252) (By
	similarity). Electroneutral proton-coupled acidic monosaccharide symporter, with a sugar to
	proton stoichiometry of 1:1. Exports glucuronic acid and free sialic acid derived from
	sialoglycoconjugate degradation out of lysosomes, driven by outwardly directed lysosomal pH
	gradient. May regulate lysosome function and metabolism of sialylated conjugates that impact
	oligodendrocyte lineage differentiation and myelinogenesis in the central nervous system (By
	similarity) (PubMed:20007460). Electrogenic proton-coupled nitrate symporter that transports
	nitrate ions across the basolateral membrane of salivary gland acinar cells, with nitrate to
	proton stoichiometry of 2:1. May contribute to nitrate clearance from serum by salivary glands,
	where it is further concentrated and secreted in the saliva (By similarity). Uses membrane
	potential to drive the uptake of acidic amino acids and peptides into synaptic vesicles.
	Responsible for synaptic vesicular storage of L-aspartate and L-glutamate in pinealocytes as
	well as vesicular uptake of N-acetyl-L-aspartyl-L-glutamate neuropeptide, relevant to aspartegic
	associated glutamatergic neurotransmission and activation of metabotropic receptors that
	inhibit subsequent transmitter release (PubMed:18695252, PubMed:23889254).
	{ECO:0000250 UniProtKB:Q5Q0U0, ECO:0000250 UniProtKB:Q9NRA2,
	ECO:0000269 PubMed:18695252, ECO:0000269 PubMed:20007460,
	ECO:0000269 PubMed:23889254}., FUNCTION: Receptor for CM101, a polysaccharide
	produced by group B Streptococcus with antipathoangiogenic properties.
	{ECO:0000250 UniProtKB:Q9MZD1}.
Molecular Weight:	54.4 kDa
UniProt:	Q8BN82
Application Datall	
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

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	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.
	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