

Datasheet for ABIN3114147 ASIC1 Protein (AA 1-528) (Strep Tag)



Overview

Quantity:	250 µg
Target:	ASIC1 (ACCN2)
Protein Characteristics:	AA 1-528
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ASIC1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MELKAEEEEV GGVQPVSIQA FASSSTLHGL AHIFSYERLS LKRALWALCF LGSLAVLLCV
	CTERVQYYFH YHHVTKLDEV AASQLTFPAV TLCNLNEFRF SQVSKNDLYH AGELLALLNN
	RYEIPDTQMA DEKQLEILQD KANFRSFKPK PFNMREFYDR AGHDIRDMLL SCHFRGEVCS
	AEDFKVVFTR YGKCYTFNSG RDGRPRLKTM KGGTGNGLEI MLDIQQDEYL PVWGETDETS
	FEAGIKVQIH SQDEPPFIDQ LGFGVAPGFQ TFVACQEQRL IYLPPPWGTC KAVTMDSDLD
	FFDSYSITAC RIDCETRYLV ENCNCRMVHM PGDAPYCTPE QYKECADPAL DFLVEKDQEY
	CVCEMPCNLT RYGKELSMVK IPSKASAKYL AKKFNKSEQY IGENILVLDI FFEVLNYETI
	EQKKAYEIAG LLGDIGGQMG LFIGASILTV LELFDYAYEV IKHKLCRRGK CQKEAKRSSA
	DKGVALSLDD VKRHNPCESL RGHPAGMTYA ANILPHHPAR GTFEDFTC
	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:
	 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.
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:	ASIC1 (ACCN2)
Alternative Name:	ASIC1 (ACCN2 Products)
Background:	Acid-sensing ion channel 1 (ASIC1) (Amiloride-sensitive cation channel 2, neuronal) (Brain
	sodium channel 2) (BNaC2),FUNCTION: Isoform 2 and isoform 3 function as proton-gated
	sodium channels, they are activated by a drop of the extracellular pH and then become rapidly
	desensitized. The channel generates a biphasic current with a fast inactivating and a slow
	sustained phase. Has high selectivity for sodium ions and can also transport lithium ions with
	high efficiency. Isoform 2 can also transport potassium, but with lower efficiency. It is nearly
	impermeable to the larger rubidium and cesium ions. Isoform 3 can also transport calcium
	ions. Mediates glutamate-independent Ca(2+) entry into neurons upon acidosis. This Ca(2+)
	overloading is toxic for cortical neurons and may be in part responsible for ischemic brain
	injury. Heteromeric channel assembly seems to modulate channel properties. Functions as a
	postsynaptic proton receptor that influences intracellular Ca(2+) concentration and calmodulin
	dependent protein kinase II phosphorylation and thereby the density of dendritic spines.
	Modulates activity in the circuits underlying innate fear. {ECO:0000269 PubMed:22760635}.,
	FUNCTION: Isoform 1 does not display proton-gated cation channel activity.
	{ECO:0000269 PubMed:22760635}.
Molecular Weight:	59.9 kDa
UniProt:	P78348
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.
	modifications.
	modifications. During lysate production, the cell wall and other cellular components that are not required for
	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

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Application Details	
	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