

Datasheet for ABIN7552365

ASIC1 Protein (AA 1-528) (His tag)



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Overview

Quantity:	1 mg
Target:	ASIC1 (ACCN2)
Protein Characteristics:	AA 1-528
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ASIC1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ASIC1 Protein expressed in mammalian cells.
Sequence:	MELKAEEEV GGVQPSIQA FASSSTLHGL AHFSYERLS LKRALWALCF LGSLAVLLCV CTERVQYYFH YHHVTKLDEV AASQLTFPAV TLCNLNEFRF SQVSKNDLYH AGELLALLNN RYEIPDTQMA DEKQLEILQD KANFRSFKPK PFNMREFYDR AGHDIRDMLL SCHFRGEVCS AEDFKVVFTR YGKCYTFNSG RDGRPRLKTM KGGTGNGLEI MLDIQQDEYL PVWGETDETS FEAGIKVQIH SQDEPPFIDQ LGFGVAPGFQ TFVACQEQL IYLPWPWGTC KAVTMDSDLD FFDSYSITAC RIDCETRYLV ENCNCRMVHM PGDAPYCTPE QYKECADPAL DFLVEKDQEY CVCEMPCNLT RYKGELSMVK IPSKASAKYL AKKFNKSEY IGENILVLDI FFEVLNYETI EQKKAYEIAE LLDIGGQMG LFIGASILTV LELFDYAYEV IKHKLCRRGK CQKEAKRSSA DKGVALSLDD VKRHNPCESL RGHPAGMTYA ANILPHHPAR GTFEDFTC Sequence without tag. The proposed Purification-Tag is based on experiences 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.

Product Details

Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • 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. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

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-

Target Details

	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:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months