

Datasheet for ABIN3116138 NHEDC2 Protein (AA 1-537) (Strep Tag)



Overview

Quantity:	250 µg
Target:	NHEDC2
Protein Characteristics:	AA 1-537
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NHEDC2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MGDEDKRITY EDSEPSTGMN YTPSMHQEAQ EETVMKLKGI DANEPTEGSI LLKSSEKKLQ
	ETPTEANHVQ RLRQMLACPP HGLLDRVITN VTIIVLLWAV VWSITGSECL PGGNLFGIII
	LFYCAIIGGK LLGLIKLPTL PPLPSLLGML LAGFLIRNIP VINDNVQIKH KWSSSLRSIA LSIILVRAGL
	GLDSKALKKL KGVCVRLSMG PCIVEACTSA LLAHYLLGLP WQWGFILGFV LGAVSPAVVV
	PSMLLLQGGG YGVEKGVPTL LMAAGSFDDI LAITGFNTCL GIAFSTGSTV FNVLRGVLEV
	VIGVATGSVL GFFIQYFPSR DQDKLVCKRT FLVLGLSVLA VFSSVHFGFP GSGGLCTLVM
	AFLAGMGWTS EKAEVEKIIA VAWDIFQPLL FGLIGAEVSI ASLRPETVGL CVATVGIAVL
	IRILTTFLMV CFAGFNLKEK IFISFAWLPK ATVQAAIGSV ALDTARSHGE KQLEDYGMDV
	LTVAFLSILI TAPIGSLLIG LLGPRLLQKV EHQNKDEEVQ GETSVQV
	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:	NHEDC2
Alternative Name:	SLC9B2 (NHEDC2 Products)
Background:	Sodium/hydrogen exchanger 9B2 (Na(+)/H(+) exchanger NHA2) (Na(+)/H(+) exchanger-like
	domain-containing protein 2) (NHE domain-containing protein 2) (Sodium/hydrogen exchanger
	like domain-containing protein 2) (Solute carrier family 9 subfamily B member 2),FUNCTION:
	Electroneutral Na(+) Li(+)/H(+) antiporter that extrudes Na(+) or Li(+) in exchange for external
	protons across the membrane (PubMed:18000046, PubMed:28154142, PubMed:22948142,
	PubMed:18508966, PubMed:36177733). Uses the proton gradient/membrane potential to
	extrude sodium (PubMed:22948142). Contributes to the regulation of intracellular pH and
	sodium homeostasis (By similarity). Also able to mediate Na(+)/Li(+) antiporter activity in
	kidney (PubMed:22948142). May play a physiological role in renal tubular function and blood
	pressure homeostasis (By similarity). Plays an important role for insulin secretion and clathrin-
	mediated endocytosis in beta-cells (By similarity). Involved in sperm motility and fertility (By
	similarity). It is controversial whether SLC9B2 plays a role in osteoclast differentiation or not (B
	similarity). {ECO:0000250 UniProtKB:Q5BKR2, ECO:0000269 PubMed:18000046,
	ECO:0000269 PubMed:18508966, ECO:0000269 PubMed:22948142,
	ECO:0000269 PubMed:28154142, ECO:0000269 PubMed:36177733}.
Molecular Weight:	57.6 kDa
UniProt:	Q86UD5
Pathways:	Proton Transport
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.
	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	
	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