Datasheet for ABIN7564462

SLC5A8 Protein (AA 1-611) (His tag)

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Overview

Quantity:	1 mg
Target:	SLC5A8
Protein Characteristics:	AA 1-611
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC5A8 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Slc5a8 Protein expressed in mammalian cells.
Sequence:	MDASRDIGSF VVWDYVVFAG MLLISAAIGI YYAFAGGGQQ TSKDFLMGGR SMSAVPVALS LTASFMSAVT VLGTPAEVYR FGAIFSIFVI TYFFVVVISA EVFLPVFYRL GITSTYEYLE LRFNRCIRLC GTILFIVQTI LYTGIVIYAP ALALNQVTGF DLWGAVVATG VVCTFYCTLG GLKAVVWTDV FQVGIMVAGF ASVIIQASIT QHGINKILSD AFNGGRLNFW NFDPNPLQRH TFWTIVIGGT FTWTTIYGVN QSQVQRYISC KSRLHAKLSL YVNLVGLWVI LTCSIFCGLA LYSRYRECDP WTSKKVSAID QLMPYLVLDI LKNYPGVPGL FVACAYSGTL STVSSSINAL AAVTVEDLIK PRFKSLSEKS LSWISQGMSV LYGALCIGMA ALASLMGALL QAALSIFGMV GGPLLGLFSL GILVPFANSI GALTGLLAGF AISLWVGIGA QLYPPLPERT LPLPLETYGC NITHNGSDWM STTEMPFSTS AFQIHNAERT PLMDNWYSLS YLYFSTIGTL TTLFVGILIS LSTGGRKQNL DPRFLLTKQD FLSNFDVFKK RNHVLNYKLH PVEVGGTDNP AFNHVELNFT DHSGKINGTR L **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.**

Product Details

	In case you have a special request, please contact us.
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:	SLC5A8
Alternative Name:	Slc5a8 (SLC5A8 Products)
Background:	Sodium-coupled monocarboxylate transporter 1 (Electrogenic sodium monocarboxylate cotransporter) (Solute carrier family 5 member 8),FUNCTION: Acts as an electrogenic sodium (Na(+)) and chloride (Cl-)-dependent sodium-coupled solute transporter, including transport of monocarboxylates (short-chain fatty acids including L-lactate, D-lactate, pyruvate, acetate, propionate, valerate and butyrate), mocarboxylate drugs (nicotinate, benzoate, salicylate and 5-aminosalicylate) and ketone bodies (beta-D-hydroxybutyrate, acetoacetate and alpha-ketoisocaproate), with a Na(+):substrate stoichiometry of between 4:1 and 2:1 (PubMed:15322102, PubMed:15651982, PubMed:20211600). Catalyzes passive carrier mediated diffusion of iodide (By similarity). Mediates iodide transport from the thyrocyte into the colloid lumen through the apical membrane (By similarity). May be responsible for the

Target Details

	absorption of D-lactate and monocarboxylate drugs from the intestinal tract (By similarity). May play a critical role in the entry of L-lactate and ketone bodies into neurons by a process driven by an electrochemical Na(+) gradient and hence contribute to the maintenance of the energy status and function of neurons (By similarity). Mediates sodium-coupled electrogenic transport of pyroglutamate (5-oxo-L-proline) (PubMed:20211600). Can mediate the transport of chloride, bromide, iodide and nitrate ions when external concentration of sodium ions is reduced (By similarity). {ECO:0000250|UniProtKB:Q8N695, ECO:0000269|PubMed:15322102, ECO:0000269|PubMed:15651982, ECO:0000269|PubMed:20211600}.
Molecular Weight:	66.8 kDa
UniProt:	Q8BYF6

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