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Datasheet for ABIN7563776

SLC5A12 Protein (AA 1-619) (His tag)

Overview

Quantity:	1 mg
Target:	SLC5A12
Protein Characteristics:	AA 1-619
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC5A12 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Slc5a12 Protein expressed in mammalian cells.
Sequence:	MRVKNFEAWD YVVFAGLFVI SSGIGVFFAI KERKKTTSRE FLVGGRQMSF GPVALSLTAS FMSAVTVLGT PAEVYRFGAS FFLFLISYVF VVFFTSELFL PVFYRSGITS TYEYLQLRFN KPVRYAATII YIVQTILYTG VVYAPALAL NQVTGFNLWA SVFATGIVCT FYCSLGGLKA VWWTDAFQMV VMIVGFLTIVL IQGSNHVGGF NNVLEKAGNG SRLHIVDFDV DPLRRHTFWT ITIGGTFTWL GYGVNQSTI QRCISCKTEK HAKLALYFNL LGLWIIVACA VFSGLIMYSH FKDCDPWTSG VISAPDQLMP YFVMEIFATM PGLPGLFVAC AFSGTLSTVA ASINALATVT FEDFKSCFP HLSDKLSTWI SKGLCILFGI MCTSMAVVAS LMGSVVQAAL SIHGMC GGPM LGLFTLGLVF PFVNWKALG GLLTGITLSF VWAIGSFIYP APESKTLPLP LSTEHCVELN ITTTVAPQIS SRPVLADTWY SLSYLYFSAV GCLGCIAAGI IISFLTGKQR GKDIDPLLIR PVCNLFCFWS KKYKTLWCWG VQHDRETEQD YLDSGSAWKQ GVESGLQNGL KQDTLAQIPG YNPKEKSYSN SVPEKTTYF Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make

Product Details

another tag necessary. 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: SLC5A12

Alternative Name: Slc5a12 ([SLC5A12 Products](#))

Background: Sodium-coupled monocarboxylate transporter 2 (Electroneutral sodium monocarboxylate cotransporter) (Low-affinity sodium-lactate cotransporter) (Solute carrier family 5 member 12),FUNCTION: Acts as an electroneutral and low-affinity sodium (Na(+))-dependent sodium-coupled solute transporter. Catalyzes the transport across the plasma membrane of many monocarboxylates such as lactate, pyruvate, nicotinate, propionate, butyrate and beta-D-hydroxybutyrate. May be responsible for the first step of reabsorption of monocarboxylates from the lumen of the proximal tubule of the kidney and the small intestine. May play also a role in monocarboxylates transport in the retina. Mediates electroneutral uptake of lactate, with a stoichiometry of 2 Na(+) for each lactate. {ECO:0000269|PubMed:16104846, ECO:0000269|PubMed:16873376}.

Target Details

Molecular Weight: 68.0 kDa

UniProt: [Q49B93](#)

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