Datasheet for ABIN7555295

SLC13A5 Protein (AA 1-568) (His tag)

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Overview

Quantity:	1 mg
Target:	SLC13A5
Protein Characteristics:	AA 1-568
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC13A5 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat SLC13A5 Protein expressed in mammalien cells.
Sequence:	MASALSYVSK FKSFVILFVT PLLLLPLVIL MPAKFVRCAY VIILMAIYWC TEVIPLAVTS LMPVLLFPLF QILDSRQVCV QYMKDTNMLF LGGLIVAVAV ERWNLHKRIA LRTLLWVGAK PARLMLGFMG VTALLSMWIS NTATTAMMVP IVEAILQQME ATSAATEAGL ELVDKGKAKE LPGSQVIFEG PTLGQQEDQE RKRLCKAMTL CICYAASIGG TATLTGTGPN VVLLGQMNEL FPDSKDLVNF ASWFAFAFPN MLVMLLFAWL WLQFVYMRFN FKKSWGCGLE SKKNEKAALK VLQEEYRKLG PLSFAEINVL ICFFLLVILW FSRDPGFMPG WLTVAWVEGE TKYVSDATVA IFVATLLFIV PSQKPKFNFR SQTEEERKTP FYPPPLLDWK VTQEKVPWGI VLLLGGGFAL AKGSEASGLS VWMGKQMEPL HAVPPAAITL ILSLLVAVFT ECTSNVATTT LFLPIFASMS RSIGLNPLYI MLPCTLSASF AFMLPVATPP NAIVFTYGHL KVADMVKTGV IMNIIGVFCV FLAVNTWGRA IFDLDHFPDW ANVTHIET **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the**

Product Details

	protein could make another tag necessary. In case you have a special request, please contact us.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien 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, Western Blot
Grade:	custom-made

Target Details

Target:	SLC13A5
Alternative Name:	SLC13A5 (SLC13A5 Products)
Background:	Na(+)/citrate cotransporter (NaCT) (Sodium-coupled citrate transporter) (Sodium-dependent citrate transporter) (Solute carrier family 13 member 5),FUNCTION: High-affinity sodium/citrate cotransporter that mediates the entry of citrate into cells, which is a critical participant of biochemical pathways (PubMed:12445824, PubMed:26324167, PubMed:26384929, PubMed:30054523, PubMed:33597751, PubMed:12826022). May function in various metabolic processes in which citrate has a critical role such as energy production (Krebs cycle), fatty acid synthesis, cholesterol synthesis, glycolysis, and gluconeogenesis (PubMed:12826022). Transports citrate into the cell in a Na(+)-dependent manner, recognizing the trivalent form of citrate (physiological pH) rather than the divalent form (PubMed:12445824, PubMed:26324167, PubMed:26384929, PubMed:30054523, PubMed:33597751, PubMed:12826022). Can recognize succinate as a substrate, but its affinity for succinate is

Target Details

	several fold lower than for citrate (PubMed:26324167). The stoichiometry is probably 4 Na(+) for each carboxylate, irrespective of whether the translocated substrate is divalent or trivalent, rendering the process electrogenic (PubMed:12445824, PubMed:12826022). Involved in the regulation of citrate levels in the brain (By similarity). {ECO:0000250|UniProtKB:Q67BT3, ECO:0000269|PubMed:12445824, ECO:0000269|PubMed:12826022, ECO:0000269|PubMed:26324167, ECO:0000269|PubMed:26384929, ECO:0000269|PubMed:30054523, ECO:0000269|PubMed:33597751}.
Molecular Weight:	63.1 kDa
UniProt:	Q86YT5
Pathways:	Dicarboxylic Acid 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.
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