

Datasheet for ABIN7545919

## SLC13A2 Protein (AA 1-592) (His tag)



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### Overview

Quantity:	1 mg
Target:	SLC13A2
Protein Characteristics:	AA 1-592
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC13A2 protein is labelled with His tag.

### Product Details

Purpose:	Custom-made recombinant SLC13A2 Protein expressed in mammalian cells.
Sequence:	<p>MATCWQALWA YRSYLIVFFV PILLPLPIL VPSKEAYCAY AIILMALFWC TEALPLAVTA</p> <p>LFPLILFPM GIVDASEVAV EYLKDSNLLF FGGLLVIAIV EHWNLHKRIA LRVLLIVGVR</p> <p>PAPLILGFML VTAFLSMWIS NTATSAMMVP IAHAVLDQLH SSQASSNVEE GSNNPTFELQ</p> <p>EPSPQKEVTK LDNGQALPVT SASSEGRAHL SQKHLHLTQC MSLCVCYSAS IGGIATLTGT</p> <p>APNLVLQGGI NSLFPQNGNV VNFASWFSFA FPTMVILLLL AWLWLQILFL GFNFRKNFGI</p> <p>GEKMQEQQQA AYCVIQTEHR LLGPMTFAEK AISILFVILV LLWFTREPGF FLGWGNLAFP</p> <p>NAKGESMVSD GTVAIFIGII MFIIPSKFPG LTQDPENPGK LKAPLGLLDW KTVNQKMPWN</p> <p>IVLLGGGYA LAKGSERSGL SEWLGKNLTP LQSVPAIA ILSLLVATF TECTSNVATT</p> <p>TIFLPILASM AQAIHLPLY VMLPCTLATS LAFMLPVATP PNAIVFSFGD LKVLDMARAG</p> <p>FLLNIIGVLI IALAINSWG I PLFSLHSFPS WAQSNTTAQC LPSLANTTTP SP <b>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</b></p>

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**special request, please contact us.**

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**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.

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**Purity:** > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

**Grade:** custom-made

## Target Details

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**Target:** SLC13A2

**Alternative Name:** SLC13A2 ([SLC13A2 Products](#))

**Background:** Solute carrier family 13 member 2 (Na<sup>+</sup>)/dicarboxylate cotransporter 1) (NaDC-1) (Renal sodium/dicarboxylate cotransporter),FUNCTION: Low-affinity sodium-dicarboxylate cotransporter, that mediates the entry of citric acid cycle intermediates, such as succinate, citrate, fumarate and alpha-ketoglutarate (2-oxoglutarate) into the small intestine and renal proximal tubule (PubMed:10894787, PubMed:9668069, PubMed:8967342). Transports the dicarboxylate into the cell with a probable stoichiometry of 3 Na<sup>+</sup> for 1 divalent dicarboxylate, rendering the process electrogenic (PubMed:8967342, PubMed:9668069, PubMed:10894787). Citrate is transported in protonated form as a divalent anion, rather than the trivalent form which is normally found in blood (PubMed:10894787). Has a critical role in renal dicarboxylate transport (By similarity). {ECO:0000250|UniProtKB:Q9ES88, ECO:0000269|PubMed:10894787,

## Target Details

ECO:0000269|PubMed:8967342, ECO:0000269|PubMed:9668069}.

Molecular Weight: 64.4 kDa

UniProt: [Q13183](#)

## 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