

Datasheet for ABIN7556646
SLC7A10 Protein (AA 1-530) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC7A10
Protein Characteristics:	AA 1-530
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC7A10 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Slc7a10 Protein expressed in mammalian cells.
Sequence:	<p>MRRDSDMASH IQQPGGHGNP GPAPSPSPGP GPGPGASERV ALKKEIGLVS ACTIIGNII GSGIFISPKG VLEHSGSVGL ALFVWVLGGG VTALGSLCYA ELGVAIPKSG GDYAYVTEIF GGLAGFLLW SAVLIMYPTS LAVISMFTSN YVLQVPFPNC IPPATASRVL SMACLMLLTW VNSSSVRWAT RIQVIFTGGK LLALSLIITV GFVQIFQGHF EELRPTNAFA FWMTPSVGHL ALAFLLQGSFA FSGWNFLNYV TEELVDPRKN LPRAIFISIP LVTFVYTFTN VAYFTAMSPQ ELLSSNAVAV TFGEKLLGYF SWVMPVSVAL STFGGINGYL FTSSRLCFSG AREGHLPSFL AMIHVRRCTP IPALLVCCGA TAVIMLVGDT YTLINIVSFI NYLCYGVITL GLLVLRWRRP ALHRPIKVNL LVPVVYLVFW AFLLVFSFIS EPMVCGVGII IILTGVIPIFF LGVFWRSKPK CVHRFTESMT RWGQELCFVY YPQGSLEEEE NGPMGQPSPL PITDKPLKTQ 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 special request, please contact us.</p>

Product Details

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: SLC7A10

Alternative Name: Slc7a10 ([SLC7A10 Products](#))

Background: Asc-type amino acid transporter 1 (Asc-1) (D-serine transporter) (Solute carrier family 7 member 10),FUNCTION: Associates with SLC3A2/4F2hc to form a functional heterodimeric complex that translocates small neutral L- and D-amino acids across the plasma membrane. Preferentially mediates exchange transport, but can also operate via facilitated diffusion (PubMed:10734121) (By similarity). Acts as a major transporter for glycine, L- and D-serine in the central nervous system. At the spinal cord and brainstem regulates glycine metabolism and glycinergic inhibitory neurotransmission by providing for glycine de novo synthesis from L-serine and glycine recycling from astrocytes to glycinergic motor neurons (PubMed:25755256, PubMed:27759100). At Schaffer collateral-CA1 synapses mediates D-serine and glycine release that modulates post-synaptic activation of NMDA receptors and excitatory glutamatergic transmission (By similarity). May regulate D-serine release from mesenchymal progenitors

Target Details

located in developing subcutaneous adipose tissue, favoring white adipocyte over thermogenic beige adipocyte lineage commitment (PubMed:33707431). {ECO:0000250|UniProtKB:P63116, ECO:0000269|PubMed:10734121, ECO:0000269|PubMed:25755256, ECO:0000269|PubMed:27759100, ECO:0000269|PubMed:33707431}.

Molecular Weight: 57.5 kDa

UniProt: [P63115](#)

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