

Datasheet for ABIN7555313

SLC38A1 Protein (AA 1-487) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC38A1
Protein Characteristics:	AA 1-487
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC38A1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat SLC38A1 Protein expressed in mammalian cells.
Sequence:	<p>MMHFKSGLEL TELQNMTVPE DDNISNDSND FTEVENGGQIN SKFISDRESR RSLTNSHLEK</p> <p>KKCDEYIPGT TSLGMSVFNL SNAIMGSGIL GLAFALANTG ILLFLVLLTS VTLLSIYSIN</p> <p>LLLICKSKETG CMVYEKLGEQ VFGTTGKFVI FGATSLQNTG AMLSylFIVK NELPSAIKFL</p> <p>MGKEETFSAW YVDGRVLVVI VTFGIILPLC LLKNLGYLGY TSGFSLSCMV FFLIVVIYKK</p> <p>FQIPCIVPEL NSTISANSTN ADTCTPKYVT FNSKTVYALP TIAFAFVCHP SVLPIYSELK</p> <p>DRSQKKMQMV SNISFFAMFV MYFLTAIFGY LTFYDQVQSD LLHKYQSKDD ILILTVRLAV</p> <p>IVAVILTVPV LFFTVRSSLF ELAKKTKFNL CRHTVVTCL LVVINLLVIF IPSMKDIFGV VGVTSANMLI</p> <p>FILPSSLYLK ITDQDGDGKT QRIWAALFLG LGVLFSLVSI PLVIYDWACS SSSDEGH Sequence</p> <p>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

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, Western Blot

Grade:

custom-made

Target Details

Target:

SLC38A1

Alternative Name:

SLC38A1 ([SLC38A1 Products](#))

Background:

Sodium-coupled neutral amino acid symporter 1 (Amino acid transporter A1) (N-system amino acid transporter 2) (Solute carrier family 38 member 1) (System A amino acid transporter 1) (System N amino acid transporter 1), FUNCTION: Symporter that cotransports short-chain neutral amino acids and sodium ions from the extracellular to the intracellular side of the cell membrane (PubMed:20599747, PubMed:10891391). The transport is electrogenic, pH dependent and driven by the Na(+) electrochemical gradient (PubMed:10891391). Participates in the astroglia-derived glutamine transport into GABAergic interneurons for neurotransmitter GABA de novo synthesis (By similarity). May also contribute to amino acid transport in placental trophoblasts (PubMed:20599747). Also regulates synaptic plasticity (PubMed:12388062). {ECO:0000250|UniProtKB:Q8K2P7, ECO:0000250|UniProtKB:Q9JM15, ECO:0000269|PubMed:10891391, ECO:0000269|PubMed:12388062, ECO:0000269|PubMed:20599747}.

Molecular Weight:

54.0 kDa

Target Details

UniProt: [Q9H2H9](#)

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