

Datasheet for ABIN7557126
Slc38a5 Protein (AA 1-479) (His tag)



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Overview

Quantity:	1 mg
Target:	Slc38a5
Protein Characteristics:	AA 1-479
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Slc38a5 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Slc38a5 Protein expressed in mammalian cells.
Sequence:	<p>MAISCAVGME MQEPKMNGTL SAGAAAGYRQ EREGFLPTTR NPATGRKPVQ FLD FEGKTSF GMSVFNLSNA IMGSGILGLA YAMAHTGVIF FLALLLCIAL LSSYSIHLLL TCASVVGIRA YEQLGQRAFG PAGKVVAII ICLHNVGAMS SYLFIKSEL PLVIGTFLHM DPEGDWFLKG NLLIILVSLI IILPLALMKH LGYLGYTSSL SLTCMLFFLI SVIYKKFQIG CDVSHNDTVV EAEQAPLQAF NSSCEAELFT VDSQMSYTVP IMAFAFVCHP EVLPIYTELC RPTQRRMQAV ANMSIGAMFI MYGLTATFGY LTFYSTVKA E MLEMYTQEDM LILCVRLAVL LAVTLTPVW LFPIRRALQQ LLFPSKAFSW LRHVAIALIL LILVNILVIC VPTIRDIFGF IGSTSAPSLI FILPSVFYLR IVPTEVEPLF SWPKIQALCF GVLGVLFMAI SLGFMFANWA TGQSRMSGH Sequence without tag.</p> <p>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>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different

Product Details

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:

Slc38a5

Alternative Name:

Slc38a5 ([Slc38a5 Products](#))

Background:

Sodium-coupled neutral amino acid transporter 5 (Solute carrier family 38 member 5) (System N transporter 2),FUNCTION: Symporter that cotransports neutral amino acids and sodium ions, coupled to an H(+) antiporter activity (PubMed:15489334, PubMed:16249471). Releases L-glutamine and glycine from astroglial cells and may participate in the glutamate/GABA-L-glutamine cycle and the NMDA receptors activation (By similarity). In addition, contributes significantly to L-glutamine uptake in retina, namely in ganglion and Mueller cells therefore, participates in the retinal glutamate-glutamine cycle (PubMed:15489334, PubMed:16249471). The transport activity is pH sensitive, Li(+) tolerant, bidirectional and associated with large uncoupled fluxes of protons (By similarity). Moreover functions in both direction and is associated with large uncoupled fluxes of protons (By similarity). The transport is electroneutral coupled to the cotransport of 1 Na(+) and the antiport of 1 H(+) (By similarity). May have a particular importance for modulation of net hepatic glutamine flux (By similarity).

Target Details

{ECO:0000250|UniProtKB:A2VCW5, ECO:0000269|PubMed:15489334,
ECO:0000269|PubMed:16249471}.

Molecular Weight: 52.6 kDa

UniProt: [Q3U1J0](#)

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