SLC38A1 Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	SLC38A1, Lysate
Full Product Name	Human SLC38A1 Protein Lysate
Product Gene Name	SLC38A1 lysate
Product Synonym Names	SLC38A1; ATA1; NAT2; SAT1; SNAT1
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	54kDa
OMIM	608490
3D Structure	ModBase 3D Structure for Q9H2H9
Related Product Information for SLC38A1 lysate	Human SLC38A1 Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of SLC38A1 lysate vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SLC38A1 purchase	MBS8419689 is a lysate targeting SLC38A1. Also known as Human SLC38A1 Protein Lysate. Host: Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLC38A1. It may not necessarily be applicable to this product.

NCBI GI #	117168277
NCBI GeneID	81539
NCBI Accession #	NP_001070952
UniProt Primary Accession #	Q9H2H9
UniProt Related Accession #	Q9H2H9
GenBank Nucleotide #	NM_001077484
NCBI Official Full Name	sodium-coupled neutral amino acid transporter 1 isoform 1
NCBI Official Synonym Full Names	solute carrier family 38 member 1
NCBI Official Symbol	SLC38A1
NCBI Official Synonym Symbols	ATA1; NAT2; SAT1; SNAT1
UniProt Protein Name	Sodium-coupled neutral amino acid transporter 1
UniProt Synonym Protein Names	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

Protein Family	Sodium-coupled neutral amino acid transporter
UniProt Gene Name	SLC38A1
UniProt Synonym Gene Names	ATA1; NAT2; SAT1; SNAT1
UniProt Entry Name	S38A1_HUMAN
NCBI Protein Information	sodium-coupled neutral amino acid transporter 1
NCBI Summary for SLC38A1	Amino acid transporters play essential roles in the uptake of nutrients, production of energy, chemical metabolism, detoxification, and neurotransmitter cycling. SLC38A1 is an important transporter of glutamine, an intermediate in the detoxification of ammonia and the production of urea. Glutamine serves as a precursor for the synaptic transmitter, glutamate (Gu et al., 2001 [PubMed 11325958]).[supplied by OMIM, Mar 2008]
UniProt Comments for SLC38A1	SLC38A1: Functions as a sodium-dependent amino acid transporter. Mediates the saturable, pH-sensitive and electrogenic cotransport of glutamine and sodium ions with a stoichiometry of 1:1. May also transport small zwitterionic and aliphatic amino acids with a lower affinity. May supply glutamatergic and GABAergic neurons with glutamine which is required for the synthesis of the neurotransmitters glutamate and GABA. Belongs to the amino acid/polyamine transporter 2 family. Protein type: Transporter, SLC family; Transporter; Membrane protein, multi-pass; Membrane protein, integral Chromosomal Location of Human Ortholog: 12q13.11 Cellular Component: integral to plasma membrane; plasma membrane; integral to membrane Molecular Function: neutral amino acid transmembrane transporter activity; sodium:amino acid symporter activity Biological Process: neutral amino acid transport; synaptic transmission; amino acid transport; sodium ion transport; neurotransmitter uptake; ion transport; transmembrane transport
Research Articles on SLC38A1	**1.** High SNAT1 expression is associated with increased cell migration in breast neoplasms.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/lysate/slc38a1/8419689