SLC6A1 Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	SLC6A1, Lysate
Full Product Name	Human SLC6A1 Protein Lysate
Product Gene Name	SLC6A1 lysate
Product Synonym Names	SLC6A1; GABATHG; GABATR; GAT1; MAE
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	67kDa
OMIM	137165
3D Structure	ModBase 3D Structure for P30531
Related Product Information for SLC6A1 lysate	Human SLC6A1 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 SLC6A1 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 SLC6A1 purchase	MBS8419750 is a lysate targeting SLC6A1. Also known as Human SLC6A1 Protein Lysate. Host: Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLC6A1. It may not necessarily be applicable to this product.

NCBI GI #	188528618
NCBI GeneID	6529
NCBI Accession #	NP_003033
UniProt Primary Accession #	P30531
UniProt Related Accession #	P30531
GenBank Nucleotide #	NM_003042
NCBI Official Full Name	sodium- and chloride-dependent GABA transporter 1 isoform a
NCBI Official Synonym Full Names	solute carrier family 6 member 1
NCBI Official Symbol	SLC6A1
NCBI Official Synonym Symbols	MAE; GAT1; GABATR; GABATHG
UniProt Protein Name	Sodium- and chloride-dependent GABA transporter 1
UniProt Synonym Protein Names	Solute carrier family 6 member 1

Protein Family	Sodium- and chloride-dependent GABA transporter
UniProt Gene Name	SLC6A1
UniProt Synonym Gene Names	GABATR; GABT1; GAT1; GAT-1
UniProt Entry Name	SC6A1_HUMAN
NCBI Protein Information	sodium- and chloride-dependent GABA transporter 1
NCBI Summary for SLC6A1	The protein encoded by this gene is a gamma-aminobutyric acid (GABA) transporter that localizes to the plasma membrane. The encoded protein removes GABA from the synaptic cleft, restoring it to presynaptic terminals. [provided by RefSeq, Jan 2017]
UniProt Comments for SLC6A1	SLC6A1: Terminates the action of GABA by its high affinity sodium-dependent reuptake into presynaptic terminals. Belongs to the sodium:neurotransmitter symporter (SNF) (TC 2.A.22) family. SLC6A1 subfamily. Protein type: Membrane protein, multi-pass; Transporter; Transporter, SLC family; Membrane protein, integral Chromosomal Location of Human Ortholog: 3p25.3 Cellular Component: cell surface; membrane; integral to plasma membrane; axon; plasma membrane; integral to membrane Molecular Function: gamma-aminobutyric acid:sodium symporter activity; neurotransmitter:sodium symporter activity Biological Process: response to purine; response to toxin; neurotransmitter secretion; learning; response to cocaine; response to estradiol stimulus; response to sucrose stimulus; synaptic transmission; transport; response to lead ion; gamma-aminobutyric acid import; negative regulation of synaptic transmission, GABAergic; response to calcium ion; transmembrane transport; protein homooligomerization; positive regulation of gamma-aminobutyric acid secretion Disease: Myoclonic-atonic Epilepsy
Research Articles on SLC6A1	**1.** This study demonstrated that SLC6A1 is an important contributor to childhood epilepsy and that reduced GAT-1 function is a common consequence of epilepsy-causing SLC6A1 variants.
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