Recombinant Human SLC18A1

Cat. No. SLC18A1-29829TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human VMAT1 with N terminal proprietary tag; Predicted MWt 80.34 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	494 amino acids
Description	The vesicular monoamine transporter acts to accumulate cytosolic monoamines into vesicles, using the proton gradient maintained across the vesicular membrane. Its proper function is essential to the correct activity of the monoaminergic systems that have been implicated in several human neuropsychiatric disorders. The transporter is a site of action of important drugs, including reserpine and tetrabenazine (Peter et al.
Molecular Weight	80.340kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids	MLRPILDAPQRLLKEGRASRQLVLVVVFVALLLDNMLFTV VVPIVPTFLYDMEFKEVN SSLHLGHAGSSPHALASPAFST IFSFFNNNTVAVEESVPSGIAWMNDTASTIPPPAT EAISA HKNNCLQGTGFLEEETTRVGVLFASKAVMQLLVNPFVGPL TNRIGYHIPMFA GFVIMFLSTVMFAFSGTYTLLFVARTLQ GIGSSFSSVAGLGMLASVYTDDHERGRA MGTALGGLALGL LVGAPFGSVMYEFVGKSAPFLILAFLALLDGALQLCILQP SKVSP ESAKGTPLFMLLKDPYILVAAGLAFLPASVSYLIG TNLFGVLANKMGRWLCSLIGMLV VGTSLLCVPLAHNIFGL IGPNAGLGLAIGMVDSSMMPIMGHLVDLRHTSVYGSVYAI ADVAFCMGFAIGPSTGGAIVKAIGFPWLMVITGVINIVYA PLCYYLRSPPAKEEKLAIL SQDCPMETRMYATQKPTKEFP LGEDSDEEPDHEE
Sequence Similarities	Belongs to the major facilitator superfamily. Vesicular transporter family.

GENE INFORMATION

Gene Name	SLC18A1 solute carrier family 18 (vesicular monoamine), member 1 [Homo sapiens]
Official Symbol	SLC18A1
Synonyms	SLC18A1; solute carrier family 18 (vesicular monoamine), member 1; VAT1, VMAT1; chromaffin granule amine transporter; CGAT;
Gene ID	6570
mRNA Refseq	NM_001135691
Protein Refseq	NP_001129163
MIM	193002
Uniprot ID	P54219

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Chromosome Location	8p21.3
Pathway	Dopaminergic synapse, organism-specific biosystem; Dopaminergic synapse, conserved biosystem; Na+/Cl- dependent neurotransmitter transporters, organism-specific biosystem; Parkinsons disease, organism-specific biosystem; SLC-mediated transmembrane transport, organism-specific biosystem;
Function	drug transmembrane transporter activity; enzyme binding; monoamine transmembrane transporter activity; serotonin transmembrane transporter activity;

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