

Recombinant Human SLC18A2

Cat. No. SLC18A2-29830TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 53-151 of Human VMAT2 with proprietary tag; Predicted MWt 36.52 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	99 amino acids
Description	The vesicular monoamine transporter acts to accumulate cytosolic monoamines into synaptic vesicles, using the proton gradient maintained across the synaptic 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 (summary by Peter et al.
Molecular Weight	36.520kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.31% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

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cycles.

Sequences of amino acids

HEKNATEIQTARPVHTASISDSFQSIFSYYDNSTMVTGNATRDLTTLHQTATQHMTN
ASAVPSDCPSEDKDLLNENVQVGLLFASKATVQLITNPFI

Sequence Similarities

Belongs to the major facilitator superfamily. Vesicular transporter family.

GENE INFORMATION

Gene Name

SLC18A2 solute carrier family 18 (vesicular monoamine), member 2 [Homo sapiens]

Official Symbol

SLC18A2

Synonyms

SLC18A2; solute carrier family 18 (vesicular monoamine), member 2; VMAT2; synaptic vesicular amine transporter; SVAT; SVMT;

Gene ID

6571

mRNA Refseq

NM_003054

Protein Refseq

NP_003045

MIM

193001

Uniprot ID

Q05940

Chromosome Location

10q25

Pathway

Dopamine Neurotransmitter Release Cycle, organism-specific biosystem;
Dopaminergic synapse, organism-specific biosystem; Dopaminergic synapse,

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conserved biosystem; Na⁺/Cl⁻ dependent neurotransmitter transporters, organism-specific biosystem; Neuronal System, organism-specific biosystem;

Function

drug binding; enzyme binding; heat shock protein binding; monoamine transmembrane transporter activity; serotonin transmembrane transporter activity;

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