

## Recombinant Human SLC18A2

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment corresponding to amino acids 53-151 of Human VMAT2 with proprietary tag; Predicted MWt 36.52 kDa.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>ProteinLength</b>	99 amino acids
<b>Description</b>	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.
<b>Molecular Weight</b>	36.520kDa inclusive of tags
<b>Form</b>	Liquid
<b>Purity</b>	Proprietary Purification
<b>Storage buffer</b>	pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

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cycles.

**Sequences of amino acids** HEKNATEIQTARPVHTASISDSFQSIFSYYDNSTMVTGNATRD<sup>+</sup>LDLTLHQTATQHMVTN  
ASAVPSDCPSEDKDLLNENVQVGLLFASKATVQLITNPF<sup>+</sup>IGL

**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<sup>+</sup>/Cl<sup>-</sup> 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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