

## Recombinant Human SLC6A3

Cat. No. SLC6A3-26889TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment corresponding to amino acids 161-237 of Human Dopamine Transporter with proprietary tag; Predicted MWt 34.10 kDa.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>ProteinLength</b>	77 amino acids
<b>Description</b>	This gene encodes a dopamine transporter which is a member of the sodium- and chloride-dependent neurotransmitter transporter family. The 3' UTR of this gene contains a 40 bp tandem repeat, referred to as a variable number tandem repeat or VNTR, which can be present in 3 to 11 copies. Variation in the number of repeats is associated with idiopathic epilepsy, attention-deficit hyperactivity disorder, dependence on alcohol and cocaine, susceptibility to Parkinson disease and protection against nicotine dependence.
<b>Molecular Weight</b>	34.100kDa 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

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<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	AWALHYLFSSFTTELPWIHCNNSWNSPNCSDAHPGDSSGDSSGLNDTFGTTPAAE YFERGVLHLHQSHGIDDLGPPR
<b>Sequence Similarities</b>	Belongs to the sodium:neurotransmitter symporter (SNF) (TC 2.A.22) family. SLC6A3 subfamily.

## GENE INFORMATION

<b>Gene Name</b>	SLC6A3 solute carrier family 6 (neurotransmitter transporter, dopamine), member 3 [ Homo sapiens ]
<b>Official Symbol</b>	SLC6A3
<b>Synonyms</b>	SLC6A3; solute carrier family 6 (neurotransmitter transporter, dopamine), member 3; DAT1; sodium-dependent dopamine transporter; DAT; dopamine transporter;
<b>Gene ID</b>	6531
<b>mRNA Refseq</b>	NM_001044
<b>Protein Refseq</b>	NP_001035
<b>MIM</b>	126455
<b>Uniprot ID</b>	Q01959
<b>Chromosome Location</b>	5p15.3

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**Pathway**

Alpha-synuclein signaling, organism-specific biosystem; Dopamine clearance from the synaptic cleft, organism-specific biosystem; Dopaminergic synapse, organism-specific biosystem; Dopaminergic synapse, conserved biosystem; Monoamine Transport, organism-specific biosystem;

**Function**

dopamine binding; dopamine transmembrane transporter activity; dopamine:sodium symporter activity; drug binding; monoamine transmembrane transporter activity;

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