

Recombinant Human SLC6A3 protein, GST-tagged

Cat. No. SLC6A3-2743H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SLC6A3(1 a.a. - 620 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1-620 a.a.
Description	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.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	94.9 kDa
AA Sequence	MSKSKCSVGLMSSVAPAKEPNAVGPKEVELILVKEQNGVQLTSSTLTNPRQSPVE AQDRETWGKKIDFLLSVIGFAVDLANVWRFPYLCYKNGGGAFLVPYLLFMVIAGMPL FYMELALGQFNREGAAGVWKICPILKGVGFTVILISLYVGFFYNVIAWALHYLFSSFT TELPWIHCNNSWNSPNCSDAHPGDSSGDSSGLNDTFGTTPAAEYFERGVLHLHQSS

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HGIDDLGPPRWQLTACLVLVIVLLYFSLWKGVKTSKGKVVWITATMPYVVLTAALLRGV
 TLPGAIDGIRAYLSVDFYRLCEASWIDAATQVCFSLGVGFGVLIASFSSYNKFTNNCY
 RDAIVTTSINSLTSFSSGFVVFSLGYMAQKHSVPIGDVAKDGPGLIFIYPEAIATLPL
 SSAWAVVFFIMLLTLGIDSAMGGMESVITGLIDEFQLLHRHRELFTLFIVLATFLLSLFC
 VTNGGIYVFTLLDHFAAGTSILFGVLIEAIGVAWFYGVGQFSDDIQMTGQRPSLYW
 RLCWKLVSFCFLFVVVVSIVTFRPPHYGAYIFPDWANALGWVIATSSMAMVPIYAAY
 KFCSLPGSFREKLAYAIAPKDRRELVDGRGEVRQFTLRHWLKV

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name

SLC6A3 solute carrier family 6 (neurotransmitter transporter, dopamine), member 3 [Homo sapiens]

Official Symbol

SLC6A3

Synonyms

SLC6A3; solute carrier family 6 (neurotransmitter transporter, dopamine), member 3; DAT1; sodium-dependent dopamine transporter; DAT; dopamine transporter; DA transporter; solute carrier family 6 member 3;

Gene ID

6531

mRNA Refseq

NM_001044

Protein Refseq

NP_001035

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MIM	126455
UniProt ID	Q01959
Chromosome Location	5p15.3
Pathway	Alpha-synuclein signaling, organism-specific biosystem; Amphetamine addiction, organism-specific biosystem; Amphetamine addiction, conserved biosystem; Cocaine addiction, organism-specific biosystem; Cocaine addiction, conserved biosystem; Dopamine clearance from the synaptic cleft, organism-specific biosystem; Dopaminergic synapse, organism-specific biosystem;
Function	dopamine binding; dopamine transmembrane transporter activity; dopamine:sodium symporter activity; drug binding; monoamine transmembrane transporter activity; protein N-terminus binding; protein complex binding; receptor binding; symporter activity;
	