Recombinant Human SLC6A4 protein, GST-tagged

Cat. No. SLC6A4-2322H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SLC6A4(1 a.a. - 630 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1-630 a.a.
Description	This gene encodes an integral membrane protein that transports the neurotransmitter serotonin from synaptic spaces into presynaptic neurons. The encoded protein terminates the action of serotonin and recycles it in a sodium-dependent manner. This protein is a target of psychomotor stimulants, such as amphetamines and cocaine, and is a member of the sodium:neurotransmitter symporter family. A repeat length polymorphism in the promoter of this gene has been shown to affect the rate of serotonin uptake and may play a role in sudden infant death syndrome, aggressive behavior in Alzheimer disease patients, and depression-susceptibility in people experiencing emotional trauma.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	96.7 kDa
AA Sequence	METTPLNSQKQLSACEDGEDCQENGVLQKVVPTPGDKVESGQISNGYSAVPSPGA GDDTRHSIPATTTTLVAELHQGERETWGKKVDFLLSVIGYAVDLGNVWRFPYICYQN

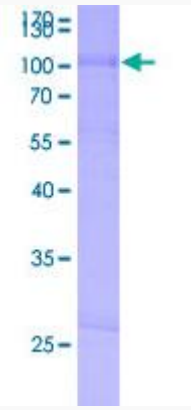
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	GGGAFLLPYTIMAIFGGIPLFYMELALGQYHRNGCISIWRKICPIFKGIGYAICIIAFYIAS YYNTIMAWALYYLISSFTDQLPWTSCKNSWNTGNCTNYFSEDNITWTLHSTSPAEEF YTRHVLQIHRSKGLQDLGGISWQLALCIMLIFTVIYFSIWKGVKTSGKVVWVTATFPYII LSVLLVRGATLPGAWRGVLFYLKPNWQKLLETGVWIDAAAQIFFSLGPGFGVLLAFA SYNKFNNNCYQDALVTSVVNCMTSFVSGFVIFTVLGYMAEMRNEDVSEVAKDAGPS LLFITYAEAIANMPASTFFAIIFFLMLITLGLDSTFAGLEGVITAVLDEFPHVWAKRRER FVLAVVITCFFGSLVTLTFGGAYVVKLLEEYATGPAVLTVALIEAVAVSWFYGITQFCR DVKEMLGFSPGWFWRICWVAISPLFLLFIICSFLMSPPQLRLFQYNYPYWSIILGYCIG TSSFICIPTYIAYRLIITPGTFKERIIKSITPETPTEIPCGDIRLNAV
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	SLC6A4 solute carrier family 6 (neurotransmitter transporter, serotonin), member 4 [Homo sapiens]
Official Symbol	SLC6A4
Synonyms	SLC6A4; solute carrier family 6 (neurotransmitter transporter, serotonin), member 4; HTT; sodium-dependent serotonin transporter; 5 HTT; SERT1; 5HT transporter; 5-hydroxytryptamine transporter; solute carrier family 6 member 4; Na+/Cl- dependent serotonin transporter; 5HTT; OCD1; SERT; 5-HTT; hSERT; 5-HTTLPR;
Gene ID	6532

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mRNA Refseq	NM_001045
Protein Refseq	NP_001036
MIM	182138
UniProt ID	P31645
Chromosome Location	17q11.2
Pathway	Monoamine Transport, organism-specific biosystem; SIDS Susceptibility Pathways, organism-specific biosystem; Serotonergic synapse, organism-specific biosystem;
Function	Rab GTPase binding; actin filament binding; cocaine binding; monoamine transmembrane transporter activity; myosin binding; nitric-oxide synthase binding; protein binding; protein homodimerization activity; serotonin transmembrane transporter activity; serotonin transmembrane transporter activity; serotonin:sodium symporter activity; serotonin:sodium symporter activity; symporter activity; syntaxin-1 binding;
	

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