

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	<p>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.</p>
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	96.7 kDa
AA Sequence	METTPLNSQKQLSACEDGEDCQENGLQKVVPTPGDKVESGQISNGYS AVPSPGA GDDTRHSIPATTTTLVAELHQGERETWGKKVDFLLSVIGYAVDLGNVWRFPYICYQN

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GGGAFLLPYTIMAIFGGIPLFYMELALGQYHRNGCISIWKRKICPIFKGIGYAICIIAFYIAS
 YYNTIMAWALYYLISSFTDQLPWTSCKNSWNTGNCTNYFSEDNITWTLHSTSPAEEF
 YTRHVLQIHRSKGLQDLGGISWQLALCIMLIFTVIYFSIWKGVKTSGKVVWVTATFPYII
 LSVLLVRGATLPGAWRGVLFYLPKNWQKLETVGWIDAAAQIFFSLGPGFGVLLAFA
 SYNKFNNNCYQDALVTSVNCMTSFVSGFVIFTVLGYMAEMRNEDVSEVAKDAGPS
 LLFITYAEAIANMPASTFFAIIFFLMLITLGLDSTFAGLEGVITAVLDEFPHVWAKRRER
 FVLAVVITCFFGSLVTLTFGGAYVVKLLEEYATGPAVLTVLIEAVAVSWFYGITQFCR
 DVKEMLGFPGWFWRICWVAISPLFLFIICSFLMSPQLRLFQYNYPYWSIILGYCIG
 TSSFICIPTYIAYRLIITPGTFKERIISITPETPTEIPCGDIRLNAV

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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