

Recombinant Full Length Human SLC6A4 Protein, GST-tagged

Cat. No. SLC6A4-695HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human SLC6A4(1 a.a. - 630 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	630 amino acids
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	METTPLNSQK QLSACEDGED CQENGLQKV VPTPGDKVES GQISNGYSVAV PSPGAGDDTR HSIPATTTTL VAEHQGERE TWGKKVDFLL SVIGYAVDLG

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NVWRFPYICY QNGGGAFLLP YTIMAIFGGI PLFYMELALG QYHRNGCISI
 WRKICPIFKG IGYAICIAF YIASYYNTIM AWALYYLISS FTDQLPWTSC
 KNSWNTGNCT NYFSEDNITW TLHSTSPAEE FYTRHVLQIH RSKGLQDLGG
 ISWQLALCIM LIFTVIYFSI WKGVKTSQKV VVWTATFPYI ILSVLLVRGA
 TLPGAWRGVL FYLKPNWQKL LETGVWIDAA AQIFFSLGPG FGVLLAFASY
 NKFNNNCYQD ALVTSVVNCM TSFVSGFVIF TVLGYMAEMR NEDVSEVAKD
 AGPSLLFITY AEAIANMPAS TFFAIIFFLM LITLGLDSTF AGLEGVITAV
 LDEFPHVWAK RRERFVLAVV ITCFFGSLVT LTFGGAYVVK LLEEYATGPA
 VLTVALIEAV AVSWFYGITQ FCRDVKEMLG FSPGWFWRIC WVAISPLFL
 FIICSFLMSP PQLRLFQYNY PYWSIILGYC IGTSSFICIP TYIAYRLIIT PGTFKERIHK
 SITPETPTEI PCGDIRLNAV

Applications

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

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

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