

Recombinant Human SLC6A4 protein, MYC/DDK-tagged

Cat. No. SLC6A4-8938H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SLC6A4 fused with MYC/DDK tag at C-terminal was expressed in HEK293.
Species	Human
Source	HEK293
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	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	70.1 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

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

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transporter activity; serotonin transmembrane transporter activity; serotonin:sodium symporter activity; serotonin:sodium symporter activity; symporter activity; syntaxin-1 binding;

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