

Recombinant Human SLC6A4 protein, His & GST-tagged

Cat. No. SLC6A4-8142H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SLC6A4 aa. (Ala181~Ser252 (Accession # P31645)) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ala181~Ser252
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	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 40.7kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL 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

Purity	>95%
Characteristic	The isoelectric point is 6.2.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.05% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

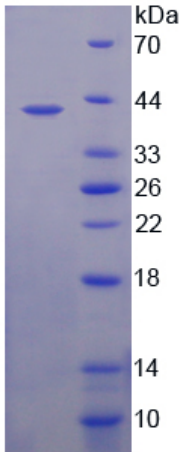
GENE INFORMATION

Gene Name	SLC6A4 solute carrier family 6 member 4 [Homo sapiens (human)]
Official Symbol	SLC6A4
Synonyms	HTT; 5HTT; OCD1; SERT; 5-HTT; SERT1; hSERT; 5-HTTLPR; 5-hydroxytryptamine (serotonin) transporter; 5HT transporter; Na ⁺ /Cl ⁻ dependent serotonin transporter; serotonin transporter 1; solute carrier family 6 (neurotransmitter transporter), member 4; solute carrier family 6 (neurotransmitter transporter, serotonin), member 4; sodium-dependent serotonin transporter

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Gene ID	6532
mRNA Refseq	NM_001045.5
Protein Refseq	NP_001036.1
UniProt ID	P31645
SDS-PAGE	 15% SDS-PAGE