

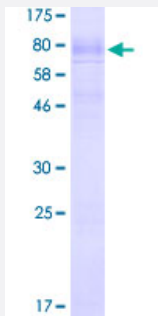
Full-Length

SLC1A3 (Human) Recombinant Protein (P02)

Catalog # H00006507-P02

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human SLC1A3 full-length ORF (NP_004163.2, 1 a.a. - 542 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MTKSNGEETPKMGGRMERFQQGVSKRTLLAKKKVQNITKEDVKSylFRNAFVLLTVTAVIVGTILGF
TLRPYRMSYREVKYFSFPGELLMRMLQMLVPLISSLVTGMAALDSKASGKMGMRAVVYYMTTII
AVVIGIIIVIIHPGKGTKENMHREGKIVRVTAADAFDLIRNMFPPNLVEACFKQFKTNYEKRSFKVPI
QANETLVGAVINNVSEAMETLTRITEELVPVPGSVNGVNALGLVVFSCMCFGFVIGNMKEQQQALR
EFFDSLNEAIMRLVAVIMWYAPVGILFLIAGKIVEMEDMGVIGGQLAMYTVTVIVGLLIHAVIVLPLLYF
LVTRKNPWVFIGGLLQALITALGTSSSSATLPITFKCLEENNGVDKRVTRFVLPVGATINMDGTALY
EALAAIFIAQVNNFELNFGQIITISITATAASIGAAGIPQAGLVTMVVLTSVGLPTDDITLIAVDWFLDRL
RTTTNVLGDSLGAAGVEHLRHELNKRDVEMGNSVIEENEMKKPYQLIAQDNETEKPIDSETKM

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

85.9

Interspecies Antigen Sequence

Mouse (96); Rat (97)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — SLC1A3

Entrez GeneID	6507
GeneBank Accession#	NM_004172.3
Protein Accession#	NP_004163.2
Gene Name	SLC1A3
Gene Alias	EA6, EAAT1, FLJ25094, GLAST, GLAST1
Gene Description	solute carrier family 1 (glial high affinity glutamate transporter), member 3
Omim ID	600111
Gene Ontology	Hyperlink
Gene Summary	Glutamate and aspartate are excitatory neurotransmitters that have been implicated in a number of pathologic states of the nervous system. Accumulation of extracellular excitatory amino acids can be cytotoxic and may also lower the seizure threshold in epilepsy. EAAT1 (SLC1A3) is a member of a family of high-affinity sodium-dependent transporter molecules that regulate neurotransmitter concentrations at the excitatory glutamatergic synapses of the mammalian central nervous system (Kirschner et al., 1994 [PubMed 8001975]).[supplied by OMIM]
Other Designations	glutamate transporter variant EAAT1ex9skip

Disease

- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Cardiovascular Diseases](#)
- [Cognition](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Mental Disorders](#)
- [Mental Retardation](#)
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- [Schizophrenia](#)
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