



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



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Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Datasheet

### SLC1A2 (Human) Recombinant Protein (P01)

**Catalog Number:** H00006506-P01

**Regulation Status:** For research use only (RUO)

**Product Description:** Human SLC1A2 full-length ORF ( NP\_004162.2, 1 a.a. - 574 a.a.) recombinant protein with GST-tag at N-terminal.

**Sequence:**

MASTEGANNMPKQVEVRMHDSLHSEEPKHRHLGLR  
LCDKLGKNNLLTLTVFGVILGAVCGLLRLASPIHPDVV  
MLIAFPDGLMRMLKMLIPLIISSLITGLSGLDAKASGRL  
GTRAMVYYMSTTIIAAVLGVILVLAIHGPNPKLKKQLGP  
GKKNDEVSSLDADFLLIRNLFPENLVQACFQQIQTGTK  
KVLVAPPPDEEANATSAVVSLNETVTEVPEETKMKVIK  
KGLEFKDGMNVLGLIGFFIAFGIAMGKMGDQAKLMVD  
FFNILNEIVMKLVIMIMWYSPLGIACLICGKIIAIDLEVVA  
RQLGMYMVTVIIGLIHGGIFLPLIYFVVTRKNPFSFFAGI  
FQAWITALGTASSAGTLPVTFRCLEENLGIDKRVTFRV  
LPVGATINMDGTALYEAVAAIFIAQMNGVVLDDGGQIVT  
VSLTATLASVGAASIPSAGLVTMILLITAVGLPTEDISLL  
VAVDWLLDRMRTSVNVVGDSEFGAGIVYHLSKSELDTI  
DSQHRVHEDIEMTKTQSIYDDMKNHRESNSNQCXYAA  
HNSVIVDECKVTLAANGKSADCSVEEEPWKREK

**Host:** Wheat Germ (in vitro)

**Theoretical MW (kDa):** 88.5

**Interspecies Antigen Sequence:** Mouse (95); Rat (95)

**Applications:** AP, Array, ELISA, WB-Re

(See our web site product page for detailed applications information)

**Protocols:** See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Preparation Method:** [in vitro wheat germ expression system](#)

**Purification:** Glutathione Sepharose 4 Fast Flow

**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.

**Entrez GeneID:** 6506

**Gene Symbol:** SLC1A2

**Gene Alias:** EAAT2, GLT-1

**Gene Summary:** This gene encodes a member of a family of solute transporter proteins. The membrane-bound protein is the principal transporter that clears the excitatory neurotransmitter glutamate from the extracellular space at synapses in the central nervous system. Glutamate clearance is necessary for proper synaptic activation and to prevent neuronal damage from excessive activation of glutamate receptors. Mutations in and decreased expression of this protein are associated with amyotrophic lateral sclerosis. Alternatively spliced transcript variants of this gene have been described, but their full-length nature is not known. [provided by RefSeq]

**References:**

1. Estimating the glutamate transporter surface density in distinct sub-cellular compartments of mouse hippocampal astrocytes. Anca R R?dulescu, Gabrielle C Todd, Cassandra L Williams, Benjamin A Bennink, Alex A Lemus, Haley E Chesbro, Justin R Bourgeois, Ashley M Kopec, Damian G Zuloaga, Annalisa Scimemi. PLoS Comput Biol . 2022 Feb 4;18(2):e1009845. doi: 10.1371/journal.pcbi.1009845. eCollection 2022 Feb.