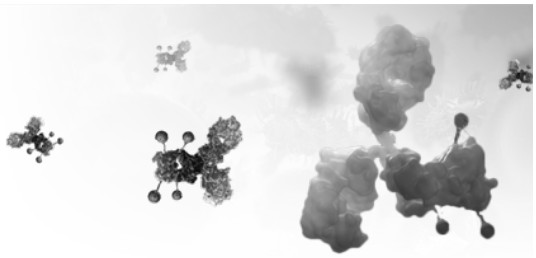

# Human SLC1A2 blocking peptide (DAG-P1498)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

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|---|---|
| **Antigen Description** | 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 identified. [provided by RefSeq, Sep 2010] |
| **Purity** | 70 - 90% by HPLC. |
| **Conjugate** | Unconjugated |
| **Applications** | BL |
| **Sequence Similarities** | Belongs to the sodium:dicarboxylate (SDF) symporter (TC 2.A.23) family. SLC1A2 subfamily. |
| **Format** | Liquid |
| **Preservative** | None |
| **Storage** | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request. |

## GENE INFORMATION

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|---|---|
| **Gene Name** | SLC1A2 solute carrier family 1 (glial high affinity glutamate transporter), member 2 [ Homo sapiens (human) ] |
| **Official Symbol** | SLC1A2 |
| **Synonyms** | SLC1A2; solute carrier family 1 (glial high affinity glutamate transporter), member 2; EAAT2; |

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|---|---|
| | GLT-1; excitatory amino acid transporter 2; glutamate/aspartate transporter II; excitotoxic amino acid transporter 2; sodium-dependent glutamate/aspartate transporter 2; |
| **Entrez Gene ID** | 6506 |
| **mRNA Refseq** | NM_001195728.2 |
| **Protein Refseq** | NP_001182657.1 |
| **UniProt ID** | A2A2U1 |
| **Chromosome Location** | 11p13-p12 |
| **Pathway** | Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem; Astrocytic Glutamate-Glutamine Uptake And Metabolism, organism-specific biosystem; Glutamatergic synapse, organism-specific biosystem; Glutamatergic synapse, conserved biosystem; Neuronal System, organism-specific biosystem; Neurotransmitter uptake and Metabolism In Glial Cells, organism-specific biosystem; SLC-mediated transmembrane transport, organism-specific biosystem; |
| **Function** | L-glutamate transmembrane transporter activity; glutamate:sodium symporter activity; protein binding; sodium:dicarboxylate symporter activity; |

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