

## Recombinant Human SLC1A2 Protein (M1-K574), 8×His-MBP, Flag tagged

**Cat. No.** SLC1A2-1213H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human 8His-MBP-TEV-(G)-SLC1A2(M1-K574 end)-Flag Protein was expressed in Insect cell.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | M1-K574                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | Sodium-dependent, high-affinity amino acid transporter that mediates the uptake of L-glutamate and also L-aspartate and D-aspartate. Functions as a symporter that transports one amino acid molecule together with two or three Na <sup>(+)</sup> ions and one proton, in parallel with the counter-transport of one K <sup>(+)</sup> ion. Mediates Cl <sup>(-)</sup> flux that is not coupled to amino acid transport; this avoids the accumulation of negative charges due to aspartate and Na <sup>(+)</sup> symport. Essential for the rapid removal of released glutamate from the synaptic cleft, and for terminating the postsynaptic action of glutamate. |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Endotoxin</b>        | < 0.01 EU per µg of the protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Purity</b>           | 90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

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|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>      | Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.                                                                           |
| <b>Storage</b>        | Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| <b>Storage Buffer</b> | Formulation:                                                                                                                                                        |
| <b>Shipping</b>       | It is shipped out with blue ice.                                                                                                                                    |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | SLC1A2 solute carrier family 1 (glial high affinity glutamate transporter), member 2 [ Homo sapiens (human) ]                                                                                                                                                                  |
| <b>Official Symbol</b> | SLC1A2                                                                                                                                                                                                                                                                         |
| <b>Synonyms</b>        | SLC1A2; solute carrier family 1 (glial high affinity glutamate transporter), member 2; excitatory amino acid transporter 2; EAAT2; GLT 1; glutamate/aspartate transporter II; excitotoxic amino acid transporter 2; sodium-dependent glutamate/aspartate transporter 2; GLT-1; |
| <b>Gene ID</b>         | 6506                                                                                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>     | NM_001195728                                                                                                                                                                                                                                                                   |
| <b>Protein Refseq</b>  | NP_001182657                                                                                                                                                                                                                                                                   |
| <b>MIM</b>             | 600300                                                                                                                                                                                                                                                                         |
| <b>UniProt ID</b>      | P43004                                                                                                                                                                                                                                                                         |

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