

# Human SLC1A2 Protein, Flag,His Tag (Detergent)

Catalog # SL2-H52D6



BIOSYSTEMS  
**Acro**  
Surprise Inside!

## Synonym

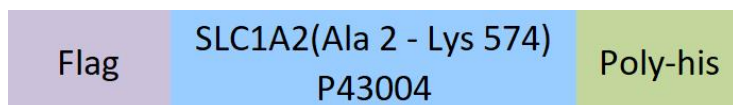
DEE41, EAAT2, EIEE41, GLT-1, GLT1, HBG1

## Source

Human SLC1A2 Protein, Flag,His Tag(SL2-H52D6) is expressed from human 293 cells (HEK293). It contains AA Ala 2 - Lys 574 (Accession # [P43004](#)).

Predicted N-terminus: Met

## Molecular Characterization



This protein carries flag tag at the N-terminus and polyhistidine tag at the C-terminus.

The protein has a calculated MW of 66.0 kDa. The protein migrates as 55-70 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Purity

>90% as determined by SDS-PAGE.

## Formulation

*This product is not suitable for cell based experiments due to cytotoxicity of DDM.*

*DDM and CHS are INDISPENSABLE to keep membrane protein soluble and active, under no circumstance should you remove DDM and CHS.*

*DDM/CHS buffer (DC-11) is sold separately and not included in protein, and please contact us if you need the buffer.*

*If glycerol is not compatible to your application, remove glycerol just before immediate experiment, and NEVER store glycerol-free protein solution.*

Supplied as 0.2 µm filtered solution in 50 mM HEPES, 150 mM NaCl, DDM, CHS, pH7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

## Shipping

*This product is supplied and shipped with dry ice, please inquire the shipping cost.*

## Storage

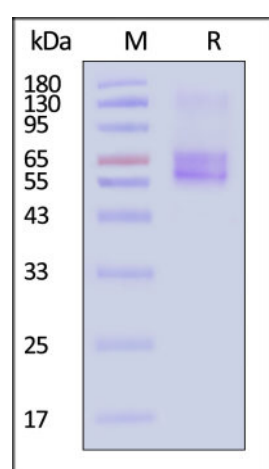
*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

\*The DDM/CHS buffer (Cat. No. [DC-11](#)) is sold separately and not included in protein, you can follow [this link](#) for product information.

## SDS-PAGE



Human SLC1A2 Protein, Flag,His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Bioactivity-ELISA

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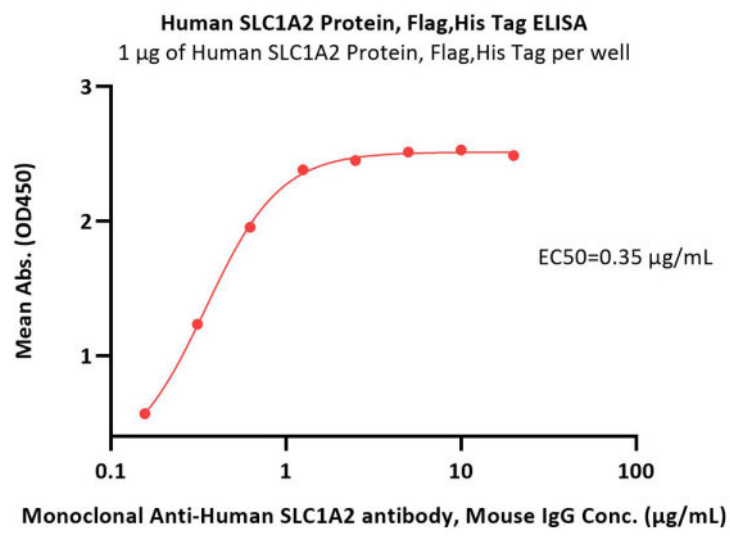
8/8/2024

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Immobilized Human SLC1A2 Protein, Flag,His Tag (Cat. No. SL2-H52D6) at 10  $\mu$ g/mL (100  $\mu$ L/well) can bind Monoclonal Anti-Human SLC1A2 antibody, Mouse IgG with a linear range of 0.156-1.25  $\mu$ g/mL (QC tested).

## Background

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. Improper regulation of this gene is thought to be associated with several neurological disorders. Alternatively spliced transcript variants of this gene have been identified. [provided by RefSeq, Jun 2017]

## Clinical and Translational Updates

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