

Datasheet for ABIN7563403  
**SLC1A1 Protein (AA 1-523) (His tag)**



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## Overview

Quantity:	1 mg
Target:	SLC1A1
Protein Characteristics:	AA 1-523
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC1A1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat Slc1a1 Protein expressed in mammalian cells.
Sequence:	<p>MGKPTSSGCD WRRFLRNHWL LLSTVAAVVL GIVLGVVVRG HSELSNLDKF YFAFPGEILM RMLKLVILPL IVSSMITGVA ALDSNVSGKI GLRAVVYYFS TTIVAVILGI VLVVSIKPGV TQKVNDINRT GKTPEVSTMD AMLDLIRNMF PENLVQACFQ QYKTKREEVK PVGDPGGNAT EVSVTTAMTT MSENKTKEYK IVGLYSDGIN VLGLIIFCLV FGLVIGKMGE KGQILVDFFN ALSDATMKIV QIIMCYMPIG ILFLIAGKII EVEDWEIFRK LGLYMATVLS GLAIHSLIVL PLYFIVVRK NPFRFALGMA QALLTALMIS SSSATLPVTF RCAAEEKNQVD KRITRFVLPV GATINMDGTA LYEAVAAVFI AQLNGLDLSI GQIVTISITA TAASIGAAGV PQAGLVTMVI VLSAVGLPAE DVTLIIAVDW LLDRFRTMVN VLGDAFGTGI VEKLSKKELE QMDVSSEVNI VNPFALEPTT LDNEDSDTKK SYVNGGFAVD KSDTISFTQT SQF <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please</b></p>

## Product Details

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### contact us.

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#### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

#### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

#### Grade:

custom-made

## Target Details

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#### Target:

SLC1A1

#### Alternative Name:

Slc1a1 ([SLC1A1 Products](#))

#### Background:

Excitatory amino acid transporter 3 (Excitatory amino-acid carrier 1) (Sodium-dependent glutamate/aspartate transporter 3) (Solute carrier family 1 member 1),FUNCTION: Sodium-dependent, high-affinity amino acid transporter that mediates the uptake of L-glutamate and also L-aspartate and D-aspartate (PubMed:12119102, PubMed:18684713). Can also transport L-cysteine (PubMed:30840898). Functions as a symporter that transports one amino acid molecule together with two or three Na(+) ions and one proton, in parallel with the counter-transport of one K(+) ion. Mediates Cl(-) flux that is not coupled to amino acid transport, this avoids the accumulation of negative charges due to aspartate and Na(+) symport (By similarity). Plays an important role in L-glutamate and L-aspartate reabsorption in renal tubuli (PubMed:9233792). Plays a redundant role in the rapid removal of released glutamate from the synaptic cleft, which is essential for terminating the postsynaptic action of glutamate (PubMed:9233792). Contributes to glutathione biosynthesis and protection against oxidative

## Target Details

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stress via its role in L-glutamate and L-cysteine transport (PubMed:30840898). Negatively regulated by ARL6IP5 (PubMed:12119102). {ECO:0000250|UniProtKB:P43005, ECO:0000269|PubMed:12119102, ECO:0000269|PubMed:18684713, ECO:0000269|PubMed:30840898, ECO:0000269|PubMed:9233792}.

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Molecular Weight: 56.7 kDa

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UniProt: [P51906](#)

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Pathways: [Dicarboxylic Acid Transport](#)

## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months