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Datasheet for ABIN7559402

**SLC1A7 Protein (AA 1-559) (His tag)**

## Overview

Quantity:	1 mg
Target:	SLC1A7
Protein Characteristics:	AA 1-559
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC1A7 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Slc1a7 Protein expressed in mammalian cells.
Sequence:	MVLDAVLARG RTVCKHNGLL ILSVLSVIVG CLLGFFLRTQ RLSPQEISYF QFPGELLMRM LKMLILPLVV SSLMSGLASL DAKTSSRLGI LTVAYYLWTT FLAVVVGIIM VSIIHPGGAA QKETTEQSGK PVMSSADALL DLVRNMFPAN LVEATFKQYR TKTTPVIKSP RGAAEEAPRR IVIYGVQEDN GSRVQNFALD LTPPEIVYK SEPGTSDGMN VLGIVIFSAT MGIMLGMRMGD SGTPLVSFCQ CLNESVMKIV AVAGWYFFPG IVFLIAGKIL EMDDPKAVGK KLGFYAVTVV CGLVVHGLLI LPLLYFLITK KNPIVFIRGV LQALLIALAT SSSSATLPIT FKCLLENNHI DRRIARFVLP VGATINMDGT ALYEAVAAIF IAQVNNYELD FGQIITISIT ATAASIGAAG IPQAGLVTMV IVLTSVGLPT DDINLIIAVD WALDRFRTMI NVLGDALAAG IMAHICRKDF AQDMGTEKLL PCETKPVTLQ EIVAAQQNGC VKSVAEASEL TLGPTCPHHI PVQVEQDEDP AAASLDHCTI EISELETNV <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 contact us.</b>

## Product Details

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**Specificity:** If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

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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.

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**Purity:** > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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**Grade:** custom-made

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## Target Details

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**Target:** SLC1A7

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**Alternative Name:** Slc1a7 ([SLC1A7 Products](#))

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**Background:** Excitatory amino acid transporter 5 (Solute carrier family 1 member 7),FUNCTION: 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(+) ions and one proton, in parallel with the counter-transport of one K(+) ion (By similarity). Acts primarily as an inhibitory glutamate-gated chloride channel being a major inhibitory presynaptic receptor at mammalian rod bipolar cell axon terminals. Glutamate binding gates a large Cl(-) conductance that mediates inhibition, affecting visual processing in the retina (PubMed:16973698, PubMed:32233906).  
{ECO:0000250|UniProtKB:O00341, ECO:0000269|PubMed:16973698, ECO:0000269|PubMed:32233906}.

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**Molecular Weight:** 60.1 kDa

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## Target Details

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UniProt:	<a href="#">Q8JZR4</a>
Pathways:	<a href="#">Dicarboxylic Acid Transport</a>

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## Application Details

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Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

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## Handling

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Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months