

Datasheet for ABIN7553585  
**SLC7A2 Protein (AA 1-658) (His tag)**



[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	SLC7A2
Protein Characteristics:	AA 1-658
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC7A2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat SLC7A2 Protein expressed in mammalien cells.
Sequence:	MIPCRAALTF ARCLIRRKIV TLDSLEDTKL CRCLSTMDLI ALGVGSLTGA GVVVLAGEVA KADSGPSIVV SFLIAALASV MAGLCYAEFG ARVPKTGSAY LYTYVTVGEL WAFITGWNLI LSYVIGTSSV ARAWSGTFDE LLSKQIQQFL RTYFRMNYTG LAEYPDFFAV CLILLLAGLL SFGVKESAWV NKVFTAVNIL VLLFVMVAGF VKGNVANWKI SEEFLKNISA SAREPPSENG TSIYGAGGFM PYGFTGTLAG AATCFYAFVG FDCIATTGEE VRNPQKAIPi GIVTSLLVCF MAYFGVSAAL TLMMPPYYLLD EKSPLPVAFE YVGWGPakyv VAAGSLCALs TSLLSIFPM PRVIYAMAED GLLFKCLAQI NSKTKTPIIA TLSSGAVAAL MAFLFDLKAL VDMMSIGTLM AYSLVAACVL ILRYQPGLSY DQPKCSPEKD GLGSSPRVTS KSESQVTMLQ RQGFSMRTLf CPSLLPTQQS ASLVSFLVGF LAFVLGLSV LTTYGVHAIH RLEAWSLALL ALFLVLFVAI VLTiWRQPQN QQKvAFMVpF LPFLPAFSIL VNIYLMVQLS ADTWVRFsiW MAIGFLiYFS YGIRHSLEGH LRDENNEEDA YPDNVHAAAe EKSAIQANDH HPRNLSSPFI FHEKTSEF <b>Sequence</b>

**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.**

### 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:

SLC7A2

### Alternative Name:

SLC7A2 ([SLC7A2 Products](#))

### Background:

Cationic amino acid transporter 2 (CAT-2) (CAT2) (Low affinity cationic amino acid transporter 2) (Solute carrier family 7 member 2),FUNCTION: Functions as a permease involved in the transport of the cationic amino acids (L-arginine, L-lysine, L-ornithine and L-homoarginine), the affinity for its substrates differs between isoforms created by alternative splicing (PubMed:9174363, PubMed:28684763). May play a role in classical or alternative activation of macrophages via its role in arginine transport (By similarity). {ECO:0000250|UniProtKB:P18581, ECO:0000269|PubMed:28684763, ECO:0000269|PubMed:9174363}, FUNCTION: [Isoform 1]: Functions as a permease that mediates the transport of the cationic amino acids (L-arginine, L-lysine, L-ornithine and L-homoarginine). Shows a much higher affinity for L-arginine and L-homoarginine than isoform 2. {ECO:0000269|PubMed:28684763,

## Target Details

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ECO:0000269|PubMed:9174363}, FUNCTION: [Isoform 2]: Functions as a low-affinity, high capacity permease involved in the transport of the cationic amino acids (L-arginine, L-lysine, L-ornithine and L-homoarginine). {ECO:0000269|PubMed:28684763, ECO:0000269|PubMed:9174363}.

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Molecular Weight: 71.7 kDa

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UniProt: [P52569](#)

## 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