

Datasheet for ABIN7556931  
**SLC7A1 Protein (AA 1-622) (His tag)**



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## Overview

Quantity:	1 mg
Target:	SLC7A1
Protein Characteristics:	AA 1-622
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC7A1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Slc7a1 Protein expressed in mammalian cells.
Sequence:	MGCKNLLGLG QQMLRRKVVD CSREESRLSR CLNTYDLVAL GVGSTLGAGV YVLGAVARE NAGPAIVISF LIAALASVLA GLCYGEFGAR VPKTGSAYLY SYVTVGELWA FITGWNLILS YIIGTSSVAR AWSATFDELI GKPIGEFSRQ HMALNAPGVL AQTPDIFAVI IIIILTGLLT LGVKESAMVN KIFTCINVLV LCFIVVSGFV KSGIKNWQLT EKNFSCNNND TNVKYGEGGF MPFGFSGVLS GAATCFYAFV GFDCIATTGE EVKNPQKAIP VGIVASLLIC FIAYFGVSAA LTLMMPPYFCL DIDSPLPGAF KHQGWEEAKY AVAIGSLCAL STSLLGSMFP MPRVIYAMAE DGLLFKFLAK INNRTKTPVI ATVTSGAIAA VMAFLFELKD LVDLMSIGTL LAYSLVAACV LVLRYQPEQP NLVYQMARTT EELDRVDQNE LVSASESQTG FLPVAEKFSL KSILSPKNVE PSKFSGLIVN ISAGLLAALI ITVCIVAVLG REALAEGTLW AVFVMTGSVL LCMLVTGIW RQPESKTKLS FKVPFVPLP VLSIFVNIYL MMQLDQGTWV RFAVWMLIGF TIYFGYGIWH SEEASLAAGQ AKTPDSNLDQ CK <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein</b>

## Product Details

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**could make another tag necessary. In case you have a special request, please contact us.**

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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:** SLC7A1

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**Alternative Name:** Slc7a1 ([SLC7A1 Products](#))

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**Background:** High affinity cationic amino acid transporter 1 (CAT-1) (CAT1) (Ecotropic retroviral leukemia receptor) (Ecotropic retrovirus receptor) (ERR) (EcoR) (Solute carrier family 7 member 1) (System Y+ basic amino acid transporter),FUNCTION: High-affinity, low capacity permease involved in the transport of the cationic amino acids (arginine, lysine and ornithine) in non-hepatic tissues. {ECO:0000269|PubMed:1652100, ECO:0000269|PubMed:1908564, ECO:0000269|PubMed:9174363}, FUNCTION: (Microbial infection) Acts as a receptor for the ecotropic murine retroviral leukemia virus. {ECO:0000269|PubMed:1908564, ECO:0000269|PubMed:2541919}.

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**Molecular Weight:** 67.1 kDa

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## Target Details

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UniProt: [Q09143](#)

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Pathways: [Dicarboxylic Acid Transport](#)

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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.

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Restrictions: For Research Use only

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## 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

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