

Datasheet for ABIN7545964

## SLC6A1 Protein (AA 1-599) (His tag)



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### Overview

Quantity:	1 mg
Target:	SLC6A1 (GAT1)
Protein Characteristics:	AA 1-599
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC6A1 protein is labelled with His tag.

### Product Details

Purpose:	Custom-made recombinant SLC6A1 Protein expressed in mammalian cells.
Sequence:	<p>MATNGSKVAD GQISTEVSEA PVANDKPKTL VVKVQKKAAD LPDRDTWKGR FDFLMSCVGY  AIGLGNVWRF PYLCGKNGGG AFLIPYFTL IFAGVPLFLL ECSLGQYTSI GGLGVWKLAP  MFKGVGLAAA VLSFWLNIYY IVIISWAIYY LYNSTTTTLP WKQCDNPWNT DRCFSNYSMV  NTTNMTSAVV EFWERNMHQM TDGLDKPGQI RWPLAITLAI AWILVYFCIW KGVGWTGKVV  YFSATYPYIM LIILFFRGVT LPGAKEGILF YITPNFRKLS DSEVWLDAAT QIFFSYGLGL  GSLIALGSYN SFHNNVYRDS IIVCCINSCT SMFAGFVIFS IVGFMAHVTK RSIADVAASG  PGLAFLAYPE AVTQLPISPL WAILFFSMLL MLGIDSQFCT VEGFITALVD EYPRLLRNRR  ELFIAAVCII SYLIGLSNIT QGGIYVFKLF DYYSASGMSL LFLVFFECVS ISWFYGVNRF  YDNIQEMVGS RPCIWWKLCW SFFTPIIVAG VFIFSAVQMT PLTMGNYVFP KWGQGVGWLM  ALSSMVLIPG YMAYMFLTLK GSLKQRIQVM VQPSEDIVRP ENGPEQPQAG SSTSKEAYI</p> <p><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.</b></p>

### In case you have a special request, please contact us.

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.

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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

## Target Details

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Target: SLC6A1 (GAT1)

Alternative Name: SLC6A1 ([GAT1 Products](#))

Background: Sodium- and chloride-dependent GABA transporter 1 (GAT-1) (Solute carrier family 6 member 1),FUNCTION: Mediates transport of gamma-aminobutyric acid (GABA) together with sodium and chloride and is responsible for the reuptake of GABA from the synapse (PubMed:30132828). The translocation of GABA, however, may also occur in the reverse direction leading to the release of GABA (By similarity). The direction and magnitude of GABA transport is a consequence of the prevailing thermodynamic conditions, determined by membrane potential and the intracellular and extracellular concentrations of Na(+), Cl(-) and GABA (By similarity). Can also mediate sodium- and chloride-dependent transport of hypotaurine but to a much lower extent as compared to GABA (By similarity).  
{ECO:0000250|UniProtKB:P23978, ECO:0000250|UniProtKB:P31648,

## Target Details

	ECO:0000269 PubMed:30132828}.
Molecular Weight:	67.1 kDa
UniProt:	<a href="#">P30531</a>

## Application Details

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

## Handling

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