

Datasheet for ABIN7563119
SLC6A1 Protein (AA 1-599) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC6A1 (GAT1)
Protein Characteristics:	AA 1-599
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC6A1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Slc6a1 Protein expressed in mammalien cells.
Sequence:	<p>MATDNSKVAD GQISTEVSEA PVASDKPKTL VVKVQKKAGD LPDRDTWKGR FDFLMSCVGY AIGLGNVWRF PYLCGKNGGG AFLIPYFLTL IFAGVPLFLL ECSLGQYTSI GGLGVWKLAP MFKGVGLAAA VLSFWLNIYY IVIISWAIYY LYNSFTTTLP WKQCDNPWNT DRCSNYSLV NTTNMTSAVV EFWERNMHQM TDGLDKPGQI RWPLAITLAI AWVLVYFCIW KGVGWTGKVV YFSATYPYIM LIILFFRGVT LPGAKEGILF YITPNFRKLS DSEVWLDAAT QIFFSYGLGL GSLIALGSYN SFHNNVYRDS IIVCCINSCT SMFAGFVIFS IVGFMAHVTK RSIADVAASG PGLAFLAYPE AVTQLPISPL WAILFFSMLL MLGIDSQFCT VEGFITALVD EYPRLLRNRR ELFIAAVCIV SYLIGLSNIT QGGIYVFKLF DYYSASGMSL LFLVFFECVS ISWFGVGNRF YDNIQEMVGS RPCIWWKLCW SFFTPIIVAG VFLFSAVQMT PLTMGSYVFP KWGQGVGWLM ALSSMVLIPG YMAYMFLTLK GSLKQRLQVM IQPSEDIVRP ENGPEQPQAG SSASKEAYI</p> <p>Sequence without tag. The proposed Purification-Tag is based on experiences with the</p>

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

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:15234345, PubMed:16150932, PubMed:8420981, PubMed:30270321). 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 (PubMed:30270321). {ECO:0000250|UniProtKB:P23978, ECO:0000269|PubMed:15234345, ECO:0000269|PubMed:16150932,

Target Details

ECO:0000269|PubMed:30270321, ECO:0000269|PubMed:8420981}.

Molecular Weight: 67.0 kDa

UniProt: [P31648](#)

Application Details

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.

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
