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Product Information

MemDX™ Membrane Protein Human SLC6A19 (Solute carrier family 6 member 19) Full Length

Cat. No.: **MPC0906K**
This product is for research use only and is not intended for diagnostic use.

This product is a 71.1 kDa Human SLC6A19 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Human

Target Protein
SLC6A19

Protein Length
Full length

Protein Class
Transporter

Molecular Weight
71.1 kDa

TMD
12

Sequence
MVRLVLPNPGLDARIPSLAELETIEQEEASSRPKWDNKAQYMLTCLGFCV
GLGNVWRFPYLCQSHGGGAFMIPFLILLVLEGIPLLYLEFAIGQRLRRGS
LGVWSSIHPALKGLGLASMLTSFMVGLYYNTIISWIMWYLFNSFQEPLPW
SDCPLNENQTGYVDECARSSPVDYFWYRETLNISTSISDSGSIQWWMLLC
LACAWSVLYMCTIRGIETTGKAVYITSTLPYVVLTIFLIRGLTLKGATNG
IVFLFTPNVTELAQPDTWLDAGAQVFFSFSLAFGGLISFSSYNSVHNNCE
KDSVIVSIINGFTSVYVAIVVYSVIGFRATQRYDDCFSTNILTLINGFDL
PEGNVTQENFVDMQQRCNASDPAAYAQLVFQTCDINAFLSEAVEGTGLAF
IVFTEAITKMPLSPLWSVLFFIMLFCLGLSSMFGNMEGVVVPLQDLRVIP
PKWPKEVLTGLICLGTFLIGFIFTLNSGQYWLSLLDSYAGSIPLLIIAFC
EMFSVVYVYGVDRFNKDIEFMIGHKPNIFWQVTWRVVSPLLMLIIFLFFF
VVEVSQELTYSIWDPGYEEFPKSQKISYPNWVYVVVVIVAGVPSLTIPGY
AIYKLIRNHCQKPGDHQGLVSTLSTASMNGDLKY

Product Description

Expression Systems

HEK293

Tag

Flag tag at the N-terminus

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

SLC6A19

Full Name

Solute carrier family 6 member 19

Introduction

This gene encodes a system B(0) transmembrane protein that actively transports most neutral amino acids across the apical membrane of epithelial cells. Mutations in this gene may result in Hartnup disorder, an inherited disease with symptoms such as pellagra, cerebellar ataxia, and psychosis. The expression and function of B0AT1 (SLC6A19) in intestinal cells depends on the presence of the accessory protein angiotensin-converting enzyme 2 (ACE2) which, among other functions, acts as a chaperone for membrane trafficking of B0AT1. The ACE2 is also the cellular receptor for severe acute respiratory syndrome-coronavirus (SARS-CoV) and for SARS-CoV-2 that is causing the coronavirus 2019 (COVID-19) pandemic.

Alternative Names

HND; B0AT1; sodium-dependent neutral amino acid transporter B(0)AT1; sodium-dependent amino acid transporter system B0; solute carrier family 6 (neurotransmitter transporter), member 19; solute carrier family 6 (neutral amino acid transporter), member 19; system B(0) neutral amino acid transporter AT1; system B0 neutral amino acid transporter; SLC6A19; Solute carrier family 6 member 19

Gene ID

340024

UniProt ID

Q695T7

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