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Product Information

MemDX™ Membrane Protein Human SLC46A1 (Solute carrier family 46 member 1) Full Length

Cat. No.: **MPC0862K**
This product is for research use only and is not intended for diagnostic use.

This product is a 49.7 kDa Human SLC46A1 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
SLC46A1

Protein Length
Full length

Protein Class
Transporter

Molecular Weight
49.7 kDa

TMD
12

Sequence
MEGSASPPEKPRARPAAAVLCRGPVEPLVFLANFALVLQGPLTTQYLWHR
FSADLGYNGTRQRGGCSNRSADPTMQEVETLTSHWTLYMNVGGFLVGLFS
STLLGAWSDSVGRRPLLVLASLGLLLQALVSVFVVQLQLHVGYFVLGRIL
CALLGDFGGLLAASFASVADVSSSRSRTFRMALLEASIGVAGMLASLLGG
HWLRAQGYANPFWLALALLIAMTLYAAFCFGETLKEPKSTRLFTFRHHRS
IVQLYVAPAPEKSRKHLALYSLAIFVVITVHFGAQDILTLYELSTPLCWD
SKLIGYGSAAQHLPYLTSLLALKLLQYCLADAWVAEIGLAFNILGMVVFA
FATITPLMFTGYGLLFLSLVITPVIRAKLSKLVRETEQGALFSAVACVNS
LAMLTASGIFNSLYPATLNFMKGFPFLLGAGLLLIPAVLIGMLEKADPHL
EFQQFPQSP

Product Description

Expression Systems
HEK293

Tag

Based on specific requirements

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

SLC46A1

Full Name

Solute carrier family 46 member 1

Introduction

This gene encodes a transmembrane proton-coupled folate transporter protein that facilitates the movement of folate and antifolate substrates across cell membranes, optimally in acidic pH environments. This protein is also expressed in the brain and choroid plexus where it transports folates into the central nervous system. This protein further functions as a heme transporter in duodenal enterocytes, and potentially in other tissues like liver and kidney. Its localization to the apical membrane or cytoplasm of intestinal cells is modulated by dietary iron levels. Mutations in this gene are associated with autosomal recessive hereditary folate malabsorption disease. Alternatively spliced transcript variants encoding different isoforms have been described for this gene.

Alternative Names

G21; HCP1; PCFT; proton-coupled folate transporter; heme carrier protein 1; solute carrier family 46 (folate transporter), member 1; SLC46A1; Solute carrier family 46 member 1

Gene ID

113235

UniProt ID

Q96NT5

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