

Product Information

MemDX™ Membrane Protein Human SLC17A7 (Solute carrier family 17 member 7) Full

Length

Cat. No.: **MPC0756K**

This product is for research use only and is not intended for diagnostic use.

This product is a 61.6 kDa Human SLC17A7 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

SLC17A7

Protein Length

Full length

Protein Class

Transporter

Molecular Weight

61.6 kDa

TMD

12

Sequence

MEFRQEEFRKLAGRALGKLHRLLEKRQEGAETLELSADGRPVTTQTRDPP
VVDCTCFGLPRRYIIAIMSGLGFCISFGIRCNLGVAIVSMVNNSTTHRGG
HVVVQKAQFSWDPETVGLIHGSFFWGYIVTQIPGGFICQKFAANRVFGFA
IVATSTLNMLIPSAARVHYGCVIFVRILQGLVEGVTPACHGIWSKWAPP
LERSRLATTAFCGSYAGAVVAMPLAGVLVQYSGWSSVFYVYGSFGIFWYL
FWLLVSYESPALHPSISEEERKYIEDAIGESAKLMNPLTKFSTPWRRFFT
SMPVYAIIVANFCRSWTFYLLISQPAYFEEVFGEISKVGLVSALPHLV
MTIIVPIGGQIADFLRSRRIMSTTNVRKLMNCGGFGMEATLLLVVGYSHS
KGVAISFLVLAVGFSGFAISGFNVNHLDIAPRYASILMGISNGVGTLSGM
VCPIIVGAMTKHKTREEWQYVFLIASLVHYGGVIFYGVFASGEKQPWAEF
EEMSEKCGFVGHDQLAGSDDSEMEDEAEPPGAPPAPPPSYGATHSTFQP
PRPPPPVRDY

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

SLC17A7

Full Name

Solute carrier family 17 member 7

Introduction

The protein encoded by this gene is a vesicle-bound, sodium-dependent phosphate transporter that is specifically expressed in the neuron-rich regions of the brain. It is preferentially associated with the membranes of synaptic vesicles and functions in glutamate transport. The protein shares 82% identity with the differentiation-associated Na-dependent inorganic phosphate cotransporter and they appear to form a distinct class within the Na⁺/Pi cotransporter family.

Alternative Names

BNPI; VGLUT1; vesicular glutamate transporter 1; brain-specific Na(+)-dependent inorganic phosphate cotransporter; brain-specific Na-dependent inorganic phosphate cotransporter; solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 7; solute carrier family 17 (vesicular glutamate transporter), member 7; SLC17A7; Solute carrier family 17 member 7

Gene ID

[57030](#)

UniProt ID

[Q9P2U7](#)