

SLC28A1 Blocking Peptide (Center)

Synthetic peptide

Catalog # BP20317c

Specification

SLC28A1 Blocking Peptide (Center) - Product Information

Primary Accession

[O00337](#)

Other Accession

[O62667](#)**SLC28A1 Blocking Peptide (Center) - Additional Information**

Gene ID 9154

Other Names

Sodium/nucleoside cotransporter 1, Concentrative nucleoside transporter 1, CNT 1, hCNT1, Na(+)/nucleoside cotransporter 1, Sodium-coupled nucleoside transporter 1, Solute carrier family 28 member 1, SLC28A1, CNT1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SLC28A1 Blocking Peptide (Center) - Protein InformationName SLC28A1 ([HGNC:11001](#))**Function**

Sodium and pyrimidine nucleoside symporter of the plasma membrane that imports uridine, thymidine and cytidine into cells by coupling their transport to the transmembrane sodium electrochemical gradient. Also transports adenosine, an atypical substrate transported with high apparent affinity, but low maximum velocity. Therefore, exhibits the transport characteristics of the nucleoside transport system cit or N2 subtype (N2/cit) (PubMed:9124315, PubMed:10455109, PubMed:14701834, PubMed:15194733, PubMed:21795683, PubMed:21998139, PubMed:32126230, PubMed:30658162). Involved in renal nucleoside (re)absorption (PubMed:30658162).

Cellular Location

Cell membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q62674}. Apical cell membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q62674}

Tissue Location

Expressed in kidney..

SLC28A1 Blocking Peptide (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

SLC28A1 Blocking Peptide (Center) - Images**SLC28A1 Blocking Peptide (Center) - Background**

Sodium-dependent and pyrimidine-selective. Exhibits the transport characteristics of the nucleoside transport system cit or N2 subtype (N2/cit) (selective for pyrimidine nucleosides and adenosine). It also transports the antiviral pyrimidine nucleoside analogs 3'-azido-3'-deoxythymidine (AZT) and 2',3'-dideoxycytidine (ddC). It may be involved in the intestinal absorption and renal handling of pyrimidine nucleoside analogs used to treat acquired immunodeficiency syndrome (AIDS). It has the following selective inhibition: adenosine, thymidine, cytidine, uridine >> guanosine, inosine.