

SLC5A4 Blocking Peptide (C-term)

Synthetic peptide

Catalog # BP21548b

Specification

SLC5A4 Blocking Peptide (C-term) - Product InformationPrimary Accession [O9NY91](#)**SLC5A4 Blocking Peptide (C-term) - Additional Information**

Gene ID 6527

Other Names

Low affinity sodium-glucose cotransporter, Sodium/glucose cotransporter 3, Na(+)/glucose cotransporter 3, Solute carrier family 5 member 4, SLC5A4, SAAT1, SGLT2

Target/Specificity

The synthetic peptide sequence is selected from aa 621-635 of HUMAN SLC5A4

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.

SLC5A4 Blocking Peptide (C-term) - Protein Information

Name SLC5A4 {ECO:0000303|PubMed:13130073}

Function

Does not function as sodium/D-glucose symporter (PubMed:13130073, PubMed:20421923, PubMed:22766068). However, may function as a D-glucose sensor by generating a D-glucose-induced depolarization which is pH-independent, Na(+)-dependent at neutral pH and probably H(+)-dependent at acidic pH (PubMed:13130073, PubMed:17110502, PubMed:20421923, PubMed:22766068).

Cellular Location

Cell membrane; Multi-pass membrane protein

Tissue Location

Expressed in skeletal muscle, where it may localize to the neuromuscular junction (at protein level) (PubMed:13130073) Expressed in small intestine where it may localize to cholinergic neurons of the submucosal plexus and myenteric plexus (at protein level) (PubMed:13130073). Detected in kidney (at protein level) (PubMed:22766068).

SLC5A4 Blocking Peptide (C-term) - Protocols

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

- [Blocking Peptides](#)

SLC5A4 Blocking Peptide (C-term) - Images**SLC5A4 Blocking Peptide (C-term) - Background**

Sodium-dependent glucose transporter.

SLC5A4 Blocking Peptide (C-term) - References

Gorboulev V., et al. Submitted (FEB-2000) to the EMBL/GenBank/DDBJ databases.

Dunham I., et al. Nature 402:489-495(1999).

Poppe R., et al. Submitted (DEC-1995) to the EMBL/GenBank/DDBJ databases.