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SLC6A15 Blocking Peptide (N-term)

Synthetic peptide

Catalog # BP19756a

Specification

SLC6A15 Blocking Peptide (N-term) - Product Information

Primary Accession	Q9H2J7
Other Accession	NP_877499.1

SLC6A15 Blocking Peptide (N-term) - Additional Information

Gene ID 55117

Other Names
Sodium-dependent neutral amino acid transporter B(0)AT2, Sodium- and chloride-dependent neurotransmitter transporter NTT73, Sodium-coupled branched-chain amino-acid transporter 1, Solute carrier family 6 member 15, Transporter v7-3, SLC6A15, B0AT2, NTT73, SBAT1

Target/Specificity
The synthetic peptide sequence is selected from aa 4-18 of HUMAN SLC6A15

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.

SLC6A15 Blocking Peptide (N-term) - Protein Information

Name SLC6A15

SLC6A15 Blocking Peptide (N-term) - Background

SLC6A15 shows structural characteristics of an Na(+) and
Cl(-)-dependent neurotransmitter transporter, including 12
transmembrane (TM) domains, intracellular N and C termini, and
large extracellular loops containing multiple N-glycosylation sites
(Farmer et al., 2000 [PubMed 11112352]).

SLC6A15 Blocking Peptide (N-term) - References

Zaia, K.A., et al. J. Biol. Chem. 284(13):8439-8448(2009)
Broer, S. Physiol. Rev. 88(1):249-286(2008)
Broer, A., et al. Biochem. J. 393 (PT 1), 421-430 (2006) :
Takanaga, H., et al. Biochem. Biophys. Res. Commun. 337(3):892-900(2005)
Farmer, M.K., et al. Genomics 70(2):241-252(2000)

Synonyms B0AT2, NTT73, SBAT1

Function
Functions as a sodium-dependent neutral amino acid transporter. Exhibits preference for the branched-chain amino acids, particularly leucine, valine and isoleucine and methionine. Mediates the saturable, pH-sensitive and electrogenic cotransport of proline and sodium ions with a stoichiometry of 1:1. May have a role as transporter for neurotransmitter precursors into neurons. In contrast to other members of the neurotransmitter transporter family, does not appear to be chloride-dependent.

Cellular Location
Membrane; Multi-pass membrane protein

Tissue Location
Almost exclusively expressed in the brain.

SLC6A15 Blocking Peptide (N-term) - Protocols

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

- Blocking Peptides