

**SLC6A15 Blocking Peptide (N-term)**

Synthetic peptide

Catalog # BP19756a

**Specification**

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**SLC6A15 Blocking Peptide (N-term) - Product Information**

Primary Accession

[O9H2J7](#)

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 ([HGNC:13621](#))**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. Can also transport low-affinity substrates such as alanine, phenylalanine, glutamine and pipecolic acid. 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](#)

### **SLC6A15 Blocking Peptide (N-term) - Images**

### **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)