

SLC46A3 (Center) Blocking peptide
Synthetic peptide
Catalog # BP19489c**Specification**

SLC46A3 (Center) Blocking peptide - Product InformationPrimary Accession [O7Z3Q1](#)**SLC46A3 (Center) Blocking peptide - Additional Information**

Gene ID 283537

Other Names

Solute carrier family 46 member 3, SLC46A3

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.

SLC46A3 (Center) Blocking peptide - Protein InformationName SLC46A3 ([HGNC:27501](#))**Function**

Lysosomal proton-coupled steroid conjugate and bile acid transporter. Preferentially recognizes lipophilic steroid conjugates or bile acids as endogenous substrates and seems to mediate escape from lysosomes to the cytoplasm (PubMed: [36741448](http://www.uniprot.org/citations/36741448)). Modulates hepatic cytosolic copper homeostasis, maybe acting as a lysosomal copper transporter and sequestering copper ions in the lysosome (By similarity). Transports catabolites of non-cleavable antibody-drug conjugates from the lysosome to the cytoplasm (PubMed: [26631267](http://www.uniprot.org/citations/26631267), PubMed: [30131388](http://www.uniprot.org/citations/30131388), PubMed: [36741448](http://www.uniprot.org/citations/36741448)). Delivers pathogen-associated molecular patterns to cytosolic pattern recognition receptors as part of the innate immune response to microbes. Selectively transports bacterial muramyl dipeptide (MDP) into the cytosol for recognition by NOD2, triggering inflammatory responses (By similarity). Likely acts as a redundant importer of cyclic GMP-AMP dinucleotides (cGAMPs) in monocyte and macrophage cell lineages (PubMed: [34235268](http://www.uniprot.org/citations/34235268)). The transport mechanism, its electrogenicity and stoichiometry remain to be elucidated (Probable).

Cellular Location

Lysosome membrane; Multi-pass membrane protein

SLC46A3 (Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

SLC46A3 (Center) Blocking peptide - Images

SLC46A3 (Center) Blocking peptide - Background

SLC46A3 (Solute carrier family 46 member 3) is a member of the major facilitator superfamily and SLC46A family. Its function remains unknown.

SLC46A3 (Center) Blocking peptide - References

Ma, Y., et al. BMC Genomics 10, 109 (2009) :