SLC30A4 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	SLC30A4, Blocking Peptide
Full Product Name	SLC30A4 Blocking Peptide
Product Gene Name	SLC30A4 blocking peptide
Product Synonym Names	Dri 27 protein; Lethal milk protein; Slc30a4; Solute carrier family 30 (zinc transporter), member 4; Solute carrier family 30 member 4; Zinc transporter 4; ZnT-4; Znt4; ZNT4_HUMAN
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	SLC30A4 peptide (MBS9624804) is used for blocking the activity of SLC30A4 antibody (MBS9606087)
Molecular Weight	47,483 Da
Chromosome Location	Chromosome: 15; NC_000015.9 (45774676..45815002, complement). Location: 15q21.1; 15q21.1
OMIM	602095
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for SLC30A4 blocking peptide	Blocking/Control
Related Product Information for SLC30A4 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of SLC30A4 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SLC30A4 purchase	MBS9624804 is a blocking peptide targeting SLC30A4.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLC30A4. It may not necessarily be applicable to this product.

NCBI GI #	21359890
NCBI GeneID	7782
NCBI Accession #	NP_037441.2
UniProt Primary Accession #	O14863

UniProt Secondary Accession #	Q8TC39
UniProt Related Accession #	O14863
GenBank Nucleotide #	NM_013309.5
NCBI Official Full Name	zinc transporter 4
NCBI Official Synonym Full Names	solute carrier family 30 (zinc transporter), member 4
NCBI Official Symbol	SLC30A4
NCBI Official Synonym Symbols	ZNT4
UniProt Protein Name	Zinc transporter 4
UniProt Synonym Protein Names	Solute carrier family 30 member 4
Protein Family	Zinc transporter
UniProt Gene Name	SLC30A4
UniProt Synonym Gene Names	ZNT4; ZnT-4
UniProt Entry Name	ZNT4_HUMAN
NCBI Protein Information	zinc transporter 4; znT-4; solute carrier family 30 member 4
NCBI Summary for SLC30A4	Zinc is the second most abundant trace metal in the human body. It is an essential element, serving both a structural role, as in the formation of zinc fingers in DNA-binding proteins, and a catalytic role in metalloenzymes, such as pancreatic carboxypeptidases (e.g., MIM 114852), alkaline phosphatases (e.g., MIM 171760), various dehydrogenases, and superoxide dismutases (e.g., MIM 147450). SLC30A4, or ZNT4, belongs to the ZNT family of zinc transporters. ZNTs are involved in transporting zinc out of the cytoplasm and have similar structures, consisting of 6 transmembrane domains and a histidine-rich cytoplasmic loop (Huang and Gitschier, 1997 [PubMed 9354792]).[supplied by OMIM, Mar 2008]
UniProt Comments for SLC30A4	SLC30A4: Probably involved in zinc transport out of the cytoplasm, maybe by sequestration into an intracellular compartment. Belongs to the cation diffusion facilitator (CDF) transporter (TC 2.A.4) family. SLC30A subfamily. Protein type: Membrane protein, multi-pass; Transporter, SLC family; Membrane protein, integral; Transporter Chromosomal Location of Human Ortholog: 15q21.1|15q21.1 Cellular Component: cytoplasm; late endosome; integral to membrane; endosome membrane Molecular Function: zinc ion transmembrane transporter activity Biological Process: zinc ion homeostasis; response to toxin
Research Articles on SLC30A4	**1.** TRPML1 works in concert with ZnT4 to regulate zinc translocation between the cytoplasm and lysosomes.
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