ZIP14 Blocking Peptide

PRODUCT OVERVIEW

Product Name	ZIP14 (Slc39a14), Blocking Peptide
Full Product Name	ZIP14 Peptide
Product Gene Name	Slc39a14 blocking peptide
Product Synonym Names	NET34; ZIP14; cig19; LZT-Hs4; KIAA0062; Zinc transporter ZIP14; LIV-1 subfamily of ZIP zinc transporter 4; solute carrier family 39 (zinc transporter), member 14
Form/Format	Liquid
Concentration	200 ug/mL (lot specific)
Preparation and Storage	Store ZIP14 peptide at -20 degree C, stable for one year.
Antibody/Peptide Pairs	ZIP14 peptide (MBS153167) is used for blocking the activity of ZIP14 antibody (MBS151580)
Molecular Weight	54,057 Da
OMIM	608736
Species	Human
Buffer	PBS pH 7.2 (10 mM NaH2PO4, 10 mM Na2HPO4, 130 mM NaCl) containing 0.1% bovine serum albumin and 0.02% sodium azide
Location	16 amino acid peptide near the center of human ZIP14.
Applications Tested/Suitable for Slc39a14 blocking peptide	Blocking (BL)
Application Notes for Slc39a14 blocking peptide	ZIP14 peptide is used for blocking the activity of ZIP14 antibody.
Related Product Information for Slc39a14 blocking peptide	MBS153167 is a blocking peptide targeting Slc39a14. Also known as ZIP14 Peptide.
Other Notes	Small volumes of Slc39a14 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Slc39a14. It may not necessarily be applicable to this product.

NCBI GI #	205830424
NCBI GeneID	23516
NCBI Accession #	NP_001128625
UniProt Primary Accession #	Q15043
UniProt Secondary Accession #	Q6ZME8; Q96BB3; A6NH98; B4DIW3; B6EU88; D3DSR4
UniProt Related Accession #	Q15043
GenBank Nucleotide #	NM_001135153.1
NCBI Official Full Name	zinc transporter ZIP14 isoform a

NCBI Official Synonym Full Names	solute carrier family 39 (zinc transporter), member 14
NCBI Official Symbol	SLC39A14
NCBI Official Synonym Symbols	NET34; ZIP14; cig19; LZT-Hs4
UniProt Protein Name	Zinc transporter ZIP14
UniProt Synonym Protein Names	LIV-1 subfamily of ZIP zinc transporter 4; LZT-Hs4; Solute carrier family 39 member 14; Zrt- and Irt-like protein 14; ZIP-14
Protein Family	Zinc transporter
UniProt Gene Name	SLC39A14
UniProt Synonym Gene Names	KIAA0062; ZIP14; LZT-Hs4; ZIP-14
UniProt Entry Name	S39AE_HUMAN
NCBI Protein Information	zinc transporter ZIP14; ZIP-14; Zrt-, Irt-like protein 14; zrt- and Irt-like protein 14; solute carrier family 39 member 14; LIV-1 subfamily of ZIP zinc transporter 4; solute carrier family 39 (metal ion transporter), member 14
NCBI Summary for Slc39a14	Zinc is an essential cofactor for hundreds of enzymes. It is involved in protein, nucleic acid, carbohydrate, and lipid metabolism, as well as in the control of gene transcription, growth, development, and differentiation. SLC39A14 belongs to a subfamily of proteins that show structural characteristics of zinc transporters (Taylor and Nicholson, 2003 [PubMed 12659941]).[supplied by OMIM, Mar 2008]
UniProt Comments for Slc39a14	SLC39A14: May mediate cellular uptake of nontransferrin-bound iron. Broad-scope metal ion transporter with a preference for zinc uptake. Belongs to the ZIP transporter (TC 2.A.5) family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Transporter; Membrane protein, multi-pass; Membrane protein, integral; Transporter, SLC family Chromosomal Location of Human Ortholog: 8p21.3 Cellular Component: Golgi apparatus; endoplasmic reticulum; integral to plasma membrane; lamellipodium; integral to membrane; plasma membrane Molecular Function: zinc ion transmembrane transporter activity; ferrous iron transmembrane transporter activity Biological Process: cellular zinc ion homeostasis; ferrous iron transport; transmembrane transport
Research Articles on Slc39a14	**1.** Polymorphisms in SLC39A14 and SLC39A8 seemed to affect blood cadmium concentrations, for SLC39A14 this effect may occur via differential gene expression.
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