SLC47A2 Immunizing Blocking Peptide

PRODUCT OVERVIEW

Product Name	SLC47A2, Blocking Peptide
Full Product Name	SLC47A2 Immunizing Peptide
Product Gene Name	SLC47A2 blocking peptide
Product Synonym Names	SLC47A2; solute carrier family 47, member 2; FLJ31196; MATE2; MATE2-B; MATE2-K; MATE2K; H+/organic cation antiporter; MATE-2; OTTHUMP00000065791; hMATE-2; kidney-specific H(+)/organic cation antiporter; multidrug and toxin extrusion 2; multidrug and toxin
Sequence	C-QRAESTAT RPGPEK
Species Reactivity	Human
Form/Format	100ug of dried peptide
Preparation and Storage	Shipped at ambient temperature, store at -20 degree C
Antibody/Peptide Pairs	SLC47A2 peptide (MBS427448) is used for blocking the activity of SLC47A2 antibody (MBS422632)
Molecular Weight	23,344 Da
OMIM	609833
ISO Certification	Manufactured in an ISO 9001:2008 Certified Laboratory.
Related Product Information for SLC47A2 blocking peptide	MBS427448 is a blocking peptide targeting SLC47A2. Also known as SLC47A2 Immunizing Peptide. Reactive in Human.
Other Notes	Small volumes of SLC47A2 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 SLC47A2. It may not necessarily be applicable to this product.

NCBI GI #	38261960
NCBI GeneID	146802
NCBI Accession #	NP_690872.2
NCBI Related Accession #	NP_001093116.1
UniProt Secondary Accession #	Q63HJ9; Q8IV44; Q96NA1; A0JBX9; A0P8Z7
UniProt Related Accession #	Q86VL8
GenBank Nucleotide #	NM_152908.3
NCBI Official Full Name	multidrug and toxin extrusion protein 2 isoform 1
NCBI Official Synonym Full Names	solute carrier family 47 member 2
NCBI Official Symbol	SLC47A2
NCBI Official Synonym Symbols	MATE2; MATE2K; MATE2-B; MATE2-K
UniProt Protein Name	Multidrug and toxin extrusion protein 2

UniProt Synonym Protein Names	Kidney-specific H(+)/organic cation antiporter; Solute carrier family 47 member 2
Protein Family	Multidrug and toxin extrusion protein
UniProt Gene Name	SLC47A2
UniProt Synonym Gene Names	MATE2; MATE-2; hMATE-2
UniProt Entry Name	S47A2_HUMAN
NCBI Protein Information	multidrug and toxin extrusion protein 2
NCBI Summary for SLC47A2	This gene encodes a protein belonging to a family of transporters involved in excretion of toxic electrolytes, both endogenous and exogenous, through urine and bile. This transporter family shares homology with the bacterial MATE (multidrug and toxin extrusion) protein family responsible for drug resistance. This gene is one of two members of the MATE transporter family located near each other on chromosome 17. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for SLC47A2	SLC47A2: Solute transporter for tetraethylammonium (TEA), 1- methyl-4-phenylpyridinium (MPP), cimetidine, N-methylnicotinamide, metformin, creatinine, guanidine, procainamide, topotecan, estrone sulfate, acyclovir, and ganciclovir. Responsible for the secretion of cationic drugs across the brush border membranes. Belongs to the multi antimicrobial extrusion (MATE) (TC 2.A.66.1) family. 6 isoforms of the human protein are produced by alternative splicing. Protein type: Transporter; Transporter, SLC family; Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 17p11.2 Cellular Component: integral to membrane; plasma membrane Molecular Function: drug transporter activity; drug:hydrogen antiporter activity Biological Process: drug export; multidrug transport; transmembrane transport
Research Articles on SLC47A2	**1.** These were associated with markedly reduced or increased MATE2-K function.
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