

SLC22A2 Blocking Peptide (N-term)

Synthetic peptide

Catalog # BP21683a

Specification**SLC22A2 Blocking Peptide (N-term) - Product Information**Primary Accession [O15244](#)**SLC22A2 Blocking Peptide (N-term) - Additional Information**

Gene ID 6582

Other Names

Solute carrier family 22 member 2, Organic cation transporter 2, hOCT2, SLC22A2, OCT2

Target/Specificity

The synthetic peptide sequence is selected from aa 77-89 of HUMAN SLC22A2

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.

SLC22A2 Blocking Peptide (N-term) - Protein Information

Name SLC22A2

Synonyms OCT2

Function

Mediates tubular uptake of organic compounds from circulation. Mediates the influx of agmatine, dopamine,

SLC22A2 Blocking Peptide (N-term) - Background

Mediates tubular uptake of organic compounds from circulation. Mediates the influx of agmatine, dopamine, noradrenaline (norepinephrine), serotonin, choline, famotidine, ranitidine, histamin, creatinine, amantadine, memantine, acriflavine, 4-[4-(dimethylamino)-styryl]-N-methylpyridinium ASP, amiloride, metformin, N-1-methylnicotinamide (NMN), tetraethylammonium (TEA), 1-methyl-4-phenylpyridinium (MPP), cimetidine, cisplatin and oxaliplatin. Cisplatin may develop a nephrotoxic action. Transport of creatinine is inhibited by fluoroquinolones such as DX-619 and LVFX. This transporter is a major determinant of the anticancer activity of oxaliplatin and may contribute to antitumor specificity.

SLC22A2 Blocking Peptide (N-term) - References

Gorboulev V., et al. DNA Cell Biol. 16:871-881(1997).
Urakami Y., et al. J. Am. Soc. Nephrol. 13:1703-1710(2002).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Mungall A.J., et al. Nature 425:805-811(2003).
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DBJ databases.

noradrenaline (norepinephrine), serotonin, choline, famotidine, ranitidine, histamine, creatinine, amantadine, memantine, acriflavine, 4-[4-(dimethylamino)-styryl]-N-methylpyridinium ASP, amiloride, metformin, N-1-methylnicotinamide (NMN), tetraethylammonium (TEA), 1-methyl-4-phenylpyridinium (MPP), cimetidine, cisplatin and oxaliplatin. Cisplatin may develop a nephrotoxic action. Transport of creatinine is inhibited by fluoroquinolones such as DX-619 and LVFX. This transporter is a major determinant of the anticancer activity of oxaliplatin and may contribute to antitumor specificity.

Cellular Location

Membrane; Multi-pass membrane protein

Tissue Location

Mainly expressed in kidney. Localized at the luminal membrane and basolateral membrane of kidney distal tubule and proximal tubules. To a lower extent, expressed in neurons of the cerebral cortex and in various subcortical nuclei (at protein levels) Also detected in secretory phase endometrium; in scattered cells in the stroma.

SLC22A2 Blocking Peptide (N-term) - Protocols

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

- [Blocking Peptides](#)