

SLC25A25 Blocking Peptide (N-term)
Synthetic peptide
Catalog # BP20508a**Specification**

SLC25A25 Blocking Peptide (N-term) - Product InformationPrimary Accession
Other Accession[Q6KCM7](#)
[Q7ZYD5](#), [Q8K3P6](#), [A2ASZ8](#), [Q0V7M4](#), [A2CEQ0](#)**SLC25A25 Blocking Peptide (N-term) - Additional Information****Gene ID** 114789**Other Names**

Calcium-binding mitochondrial carrier protein SCaMC-2, Mitochondrial ATP-Mg/Pi carrier protein 3, Mitochondrial Ca(2+)-dependent solute carrier protein 3, Small calcium-binding mitochondrial carrier protein 2, Solute carrier family 25 member 25, SLC25A25, APC3, KIAA1896, MCSC3, SCAMC2

Target/Specificity

The synthetic peptide sequence is selected from aa 82-93 of Human SLC25A25

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.

SLC25A25 Blocking Peptide (N-term) - Protein Information**Name** SLC25A25 ([HGNC:20663](#))**Function**

Electroneutral antiporter that most probably mediates the transport of adenyl nucleotides through the inner mitochondrial membrane. Originally identified as an ATP-magnesium/inorganic phosphate antiporter, it could have a broader specificity for adenyl nucleotides. By regulating the mitochondrial matrix adenyl nucleotide pool could adapt to changing cellular energetic demands and indirectly regulate adenyl nucleotide-dependent metabolic pathways.

Cellular Location

Mitochondrion inner membrane; Multi-pass membrane protein

Tissue Location

Widely expressed. Expressed in fetal and adult liver, skeletal muscle, testis, ovary, hippocampus

and caudate nucleus [Isoform 2]: Expression is restricted to kidney and lung.

SLC25A25 Blocking Peptide (N-term) - Protocols

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

- [Blocking Peptides](#)

SLC25A25 Blocking Peptide (N-term) - Images

SLC25A25 Blocking Peptide (N-term) - Background

Calcium-dependent mitochondrial solute carrier. Mitochondrial solute carriers shuttle metabolites, nucleotides, and cofactors through the mitochondrial inner membrane. May act as a ATP-Mg/Pi exchanger that mediates the transport of Mg-ATP in exchange for phosphate, catalyzing the net uptake or efflux of adenine nucleotides into or from the mitochondria.

SLC25A25 Blocking Peptide (N-term) - References

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Fiermonte G., et al. J. Biol. Chem. 279:30722-30730(2004).
Nagase T., et al. DNA Res. 8:179-187(2001).
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Ota T., et al. Nat. Genet. 36:40-45(2004).