

SFXN1 Blocking Peptide (C-term)

Synthetic peptide

Catalog # BP20281b

Specification

SFXN1 Blocking Peptide (C-term) - Product Information

Primary Accession

[O9H9B4](#)

Other Accession

[NP_073591.2](#)**SFXN1 Blocking Peptide (C-term) - Additional Information****Gene ID** 94081**Other Names**

Sideroflexin-1, Tricarboxylate carrier protein, TCC, SFXN1

Target/Specificity

The synthetic peptide sequence is selected from aa 308-321 of HUMAN SFXN1

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.

SFXN1 Blocking Peptide (C-term) - Protein Information**Name** SFXN1 ([HGNC:16085](#))**Function**

Amino acid transporter importing serine, an essential substrate of the mitochondrial branch of the one-carbon pathway, into mitochondria. Mitochondrial serine is then converted to glycine and formate, which exits to the cytosol where it is used to generate the charged folates that serve as one-carbon donors (PubMed:30442778). May also transport other amino acids including alanine and cysteine (PubMed:30442778).

Cellular Location

Mitochondrion inner membrane; Multi-pass membrane protein

Tissue Location

Highly expressed in tissues with high one-carbon metabolism activity, such as blood, liver and kidney

SFXN1 Blocking Peptide (C-term) - Protocols

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

- [Blocking Peptides](#)

SFXN1 Blocking Peptide (C-term) - Images

SFXN1 Blocking Peptide (C-term) - Background

Might be involved in the transport of a component required for iron utilization into or out of the mitochondria.

SFXN1 Blocking Peptide (C-term) - References

Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :
Siculella, L., et al. FEBS Lett. 578(3):280-284(2004)
Siculella, L., et al. J. Lipid Res. 45(7):1333-1340(2004)
Giudetti, A.M., et al. J. Lipid Res. 44(11):2135-2141(2003)
Miyake, S., et al. Biochem. Biophys. Res. Commun. 295(2):463-468(2002)