

TMEM97 Blocking Peptide (N-term)
Synthetic peptide
Catalog # BP21745a**Specification**

TMEM97 Blocking Peptide (N-term) - Product InformationPrimary Accession [Q5BJF2](#)**TMEM97 Blocking Peptide (N-term) - Additional Information****Gene ID** 27346**Other Names**

Transmembrane protein 97, Protein MAC30, TMEM97, MAC30

Target/Specificity

The synthetic peptide sequence is selected from aa 42-56 of HUMAN TMEM97

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.

TMEM97 Blocking Peptide (N-term) - Protein Information**Name** TMEM97 ([HGNC:28106](#))**Function**

Intracellular sigma-2 receptor that binds histatin 1/HN1 (Hst 1) at the endoplasmic reticulum (ER) membrane, which is critical for mitochondrial-targeting and -activating properties of Hst1 (PubMed: [34233061](http://www.uniprot.org/citations/34233061)), PubMed: [35970844](http://www.uniprot.org/citations/35970844)). Thought to play important role in regulating cell survival, morphology and differentiation (PubMed: [23922215](http://www.uniprot.org/citations/23922215)), PubMed: [25620095](http://www.uniprot.org/citations/25620095)). May play a role as a regulator of cellular cholesterol homeostasis (PubMed: [19583955](http://www.uniprot.org/citations/19583955)). May function as sterol isomerase (PubMed: [25566323](http://www.uniprot.org/citations/25566323)). May alter the activity of some cytochrome P450 proteins (PubMed: [22292588](http://www.uniprot.org/citations/22292588)).

Cellular Location

Nucleus membrane; Multi-pass membrane protein. Rough endoplasmic reticulum membrane;

Multi-pass membrane protein. Note=Localized at cell membrane and in lysosomes in sterol-depleted cells when expression of endogenous TMEM97 is stimulated.

Tissue Location

Widely expressed in normal tissues. Expressed in pancreatic, renal, breast, colon, ovarian surface epithelial (OSE) cells. Highly expressed in various proliferating cancer cells (PubMed:23922215).

TMEM97 Blocking Peptide (N-term) - Protocols

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

- [Blocking Peptides](#)

TMEM97 Blocking Peptide (N-term) - Images**TMEM97 Blocking Peptide (N-term) - Background**

Plays a role as a regulator of cellular cholesterol homeostasis.

TMEM97 Blocking Peptide (N-term) - References

Murphy M.,et al.Cell Growth Differ. 4:715-722(1993).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Kayed H.,et al.Histol. Histopathol. 19:1021-1031(2004).
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Bartz F.,et al.Cell Metab. 10:63-75(2009).