

HPN Blocking Peptide (Center)
Synthetic peptide
Catalog # BP21383c**Specification**

HPN Blocking Peptide (Center) - Product InformationPrimary Accession [P05981](#)**HPN Blocking Peptide (Center) - Additional Information****Gene ID** 3249**Other Names**

Serine protease hepsin, Transmembrane protease serine 1, Serine protease hepsin non-catalytic chain, Serine protease hepsin catalytic chain, HPN, TMPRSS1

Target/Specificity

The synthetic peptide sequence is selected from aa 153-168 of HUMAN HPN

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.

HPN Blocking Peptide (Center) - Protein Information**Name** HPN**Synonyms** TMPRSS1**Function**

Serine protease that cleaves extracellular substrates, and contributes to the proteolytic processing of growth factors, such as HGF and MST1/HGFL (PubMed: [21875933](http://www.uniprot.org/citations/21875933), PubMed: [15839837](http://www.uniprot.org/citations/15839837)). Plays a role in cell growth and maintenance of cell morphology (PubMed: [8346233](http://www.uniprot.org/citations/8346233), PubMed: [21875933](http://www.uniprot.org/citations/21875933)). Plays a role in the proteolytic processing of ACE2 (PubMed: [24227843](http://www.uniprot.org/citations/24227843)). Mediates the proteolytic cleavage of urinary UMOD that is required for UMOD polymerization (PubMed: [26673890](http://www.uniprot.org/citations/26673890)).

Cellular Location

Cell membrane; Single-pass type II membrane protein Apical cell membrane; Single-pass type II membrane protein

Tissue Location

Detected in liver and kidney.

HPN Blocking Peptide (Center) - Protocols

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

- [Blocking Peptides](#)

HPN Blocking Peptide (Center) - Images**HPN Blocking Peptide (Center) - Background**

Plays an essential role in cell growth and maintenance of cell morphology. May mediate the activating cleavage of HGF and MST1/HGFL. Plays a role in the proteolytic processing of ACE2.

HPN Blocking Peptide (Center) - References

Leytus S.P., et al. *Biochemistry* 27:1067-1074(1988).
Ota T., et al. *Nat. Genet.* 36:40-45(2004).
Tsuji A., et al. *J. Biol. Chem.* 266:16948-16953(1991).
Torres-Rosado A., et al. *Proc. Natl. Acad. Sci. U.S.A.* 90:7181-7185(1993).
Chen R., et al. *J. Proteome Res.* 8:651-661(2009).