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TMPRSS11D Blocking Peptide (N-Term)

Synthetic peptide
Catalog # BP21729a

Specification

TMPRSS11D Blocking Peptide (N-Term) - Product Information

Primary Accession O60235

TMPRSS11D Blocking Peptide (N-Term) - Additional Information

Gene ID 9407

Other Names
Transmembrane protease serine 11D, 3421-, Airway trypsin-like protease, Transmembrane protease serine 11D non-catalytic chain, Transmembrane protease serine 11D catalytic chain, TMPRSS11D, HAT

Target/Specificity
The synthetic peptide sequence is selected from aa 104-119 of HUMAN TMPRSS11D

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.

TMPRSS11D Blocking Peptide (N-Term) - Protein Information

Name TMPRSS11D

Synonyms HAT

Function
May play some biological role in the host defense system on the mucous membrane independently of or in cooperation with other substances in airway mucous or bronchial secretions. Plays a role in the proteolytic processing of ACE2. Proteolytically cleaves and activates the human coronavirus 229E (HCoV-229E) spike glycoprotein which facilitate virus-cell membrane fusions; spike proteins are synthesized and maintained in precursor intermediate folding states and proteolysis permits the refolding and energy release required to create stable virus-cell linkages and membrane coalescence. Preferentially cleaves the C-terminal side of arginine residues at the P1 position of certain peptides, cleaving Boc-Phe-Ser-Arg-4-methylcoumaryl-7-amide most efficiently and having an optimum pH of 8.6 with this substrate.

Cellular Location

Cell membrane; Single-pass type II membrane protein. Note=Activated by cleavage and secreted

Tissue Location
Located in the cells of the submucosal serous glands of the bronchi and trachea

TMPRSS11D Blocking Peptide (N-Term) - Protocols

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

- Blocking Peptides

TMPRSS11D Blocking Peptide (N-Term) - Images

TMPRSS11D Blocking Peptide (N-Term) - Background

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TMPRSS11D Blocking Peptide (N-Term) - References

Yamaoka K.,et al.J. Biol. Chem. 273:11895-11901(1998).
Yasuoka S.,et al.Am. J. Respir. Cell Mol. Biol. 16:300-308(1997).
Bertram S.,et al.J. Virol. 87:6150-6160(2013).
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