# TMEM147 Blocking Peptide

## PRODUCT OVERVIEW

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| **Product Name** | TMEM147, Blocking Peptide |
| **Full Product Name** | TMEM147 Peptide |
| **Product Gene Name** | TMEM147 blocking peptide |
| **Product Synonym Names** | NIFIE14; Transmembrane protein 147; Protein NIFIE 14; transmembrane protein 147 |
| **Form/Format** | Liquid |
| **Concentration** | 200 ug/mL (lot specific) |
| **Preparation and Storage** | Store TMEM147 peptide at -20 degree C, stable for one year. |
| **Antibody/Peptide Pairs** | TMEM147 peptide (MBS152510) is used for blocking the activity of TMEM147 antibody (MBS151046) |
| **Molecular Weight** | 19,543 Da |
| **OMIM** | 613585 |
| **Species** | Human |
| **Buffer** | PBS pH 7.2 (10 mM NaH2PO4, 10 mM Na2HPO4, 130 mM NaCl) containing 0.1% bovine serum albumin and 0.02% sodium azide |
| **Location** | 19 amino acids near the amino terminus of human HIG1. |
| **Applications Tested/Suitable for TMEM147 blocking peptide** | Blocking (BL) |
| **Application Notes for TMEM147 blocking peptide** | TMEM147 peptide is used for blocking the activity of TMEM147 antibody. |
| **Related Product Information for TMEM147 blocking peptide** | MBS152510 is a blocking peptide targeting TMEM147. Also known as TMEM147 Peptide. |
| **Other Notes** | Small volumes of TMEM147 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TMEM147. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 14249166 |
| **NCBI GeneID** | 10430 |
| **NCBI Accession #** | NP_116024 |
| **UniProt Primary Accession #** | Q9BVK8 |
| **UniProt Secondary Accession #** | O75790; A8MWW0 |
| **UniProt Related Accession #** | Q9BVK8 |
| **GenBank Nucleotide #** | NM_032635.3 |
| **NCBI Official Full Name** | transmembrane protein 147 isoform 1 |

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| **NCBI Official Synonym Full Names** | transmembrane protein 147 |
| **NCBI Official Symbol** | TMEM147 |
| **NCBI Official Synonym Symbols** | NIFIE14 |
| **UniProt Protein Name** | Transmembrane protein 147 |
| **UniProt Synonym Protein Names** | Protein NIFIE 14 |
| **Protein Family** | Transmembrane protein |
| **UniProt Gene Name** | TMEM147 |
| **UniProt Entry Name** | TM147_HUMAN |
| **NCBI Protein Information** | transmembrane protein 147; protein NIFIE 14; seven transmembrane domain protein |
| **UniProt Comments for TMEM147** | TMEM147: Forms a complex with NCLN and NOMO2, resulting in a stabilization of the 3 proteins, which are otherwise quickly degraded by the proteasome. Due to the strong similarity between NOMO1, NOMO2 and NOMO3, probably also interacts with NOMO1 and NOMO3.<br><br>Protein type: Membrane protein, multi-pass; Membrane protein, integral<br><br>Chromosomal Location of Human Ortholog: 19q13.1<br><br>Cellular Component: endoplasmic reticulum membrane; integral to membrane |
| **Research Articles on TMEM147** | **1.** TMEM147 is a novel core component of the Nicalin-NOMO complex, further emphasizing its similarity with gamma-secretase. |
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