# CHRNB4 Blocking Peptide (C-Term) Blocking Peptide

## PRODUCT OVERVIEW

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| **Product Name** | CHRNB4, Blocking Peptide |
| **Full Product Name** | CHRNB4 Blocking Peptide (C-term) |
| **Product Gene Name** | CHRNB4 blocking peptide |
| **Product Synonym Names** | Neuronal acetylcholine receptor subunit beta-4; CHRNB4 |
| **Form/Format** | Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml. |
| **Specificity** | The synthetic peptide sequence is selected from aa 437-450 of HUMAN CHRNB4 |
| **Preparation and Storage** | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C. |
| **Antibody/Peptide Pairs** | CHRNB4 peptide (MBS9228803) is used for blocking the activity of CHRNB4 antibody (MBS9205023) |
| **Molecular Weight** | 25,862 Da |
| **OMIM** | 118509 |
| **Cellular Location** | Cell junction, synapse, postsynaptic cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein |
| **Related Product Information for CHRNB4 blocking peptide** | After binding acetylcholine, the AChR responds by an extensive change in conformation that affects all subunits and leads to opening of an ion-conducting channel across the plasma membrane. |
| **Other Notes** | Small volumes of CHRNB4 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. |
| **Searchable Terms for CHRNB4 purchase** | MBS9228803 is a blocking peptide targeting CHRNB4. Also known as CHRNB4 Blocking Peptide (C-term). |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CHRNB4. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 4502837 |
| **NCBI GeneID** | 1143 |
| **NCBI Accession #** | NP_000741.1 |
| **UniProt Primary Accession #** | P30926 |
| **UniProt Secondary Accession #** | Q16607; Q4VBA5; Q8WXC8; Q9BQR4; A4FTX5; E9PHE8 |
| **UniProt Related Accession #** | P30926 |
| **GenBank Nucleotide #** | NM_000750.3 |
| **NCBI Official Full Name** | neuronal acetylcholine receptor subunit beta-4 isoform 1 |
| **NCBI Official Synonym Full Names** | cholinergic receptor nicotinic beta 4 subunit |
| **NCBI Official Symbol** | CHRNB4 |
| **UniProt Protein Name** | Neuronal acetylcholine receptor subunit beta-4 |

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| **Protein Family** | Neuronal acetylcholine receptor |
| **UniProt Gene Name** | CHRNB4 |
| **UniProt Entry Name** | ACHB4_HUMAN |
| **NCBI Protein Information** | neuronal acetylcholine receptor subunit beta-4 |
| **UniProt Comments for CHRNB4** | nAChRB4: After binding acetylcholine, the AChR responds by an extensive change in conformation that affects all subunits and leads to opening of an ion-conducting channel across the plasma membrane. Belongs to the ligand-gated ion channel (TC 1.A.9) family. Acetylcholine receptor (TC 1.A.9.1) subfamily. Beta- 4/CHRNB4 sub-subfamily.<br><br>Protein type: Membrane protein, integral; Receptor, misc.; Channel, ligand-gated; Membrane protein, multi-pass; Channel, cation<br><br>Chromosomal Location of Human Ortholog: 15q24<br><br>Cellular Component: integral to plasma membrane; nicotinic acetylcholine-gated receptor-channel complex; plasma membrane<br><br>Molecular Function: acetylcholine binding; acetylcholine receptor activity; ligand-gated ion channel activity; nicotinic acetylcholine-activated cation-selective channel activity<br><br>Biological Process: ion transport; response to nicotine; signal transduction; synaptic transmission involved in micturition; synaptic transmission, cholinergic |
| **Research Articles on CHRNB4** | **1.** Data suggest that CHRNA5-A3-B4 gene variants do not exhibit a robust association with smoking cessation and are unlikely to be useful for clinically optimizing smoking cessation pharmacotherapy for Caucasian smokers. |
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