# Arrestin C Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

## PRODUCT OVERVIEW

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| **Product Name** | Arrestin-C (ARR3), Blocking Peptide |
| **Full Product Name** | Arrestin C Blocking Peptide |
| **Product Gene Name** | ARR3 blocking peptide |
| **Product Synonym Names** | ARR3; ARR4; ARRC_HUMAN; Arrestin 3 retinal; Arrestin 3 retinal (X-arrestin); Arrestin 4; Arrestin-C; ARRX; C arrestin; C-arrestin; CAR; cArr; Cone arrestin; Retinal cone arrestin 3; Retinal cone arrestin-3; X arrestin; X-arrestin |
| **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 10 mg/ml. |
| **Purity/Purification** | The purity is >90%,tested by HPLC and MS. |
| **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** | Arrestin C peptide (MBS9619517) is used for blocking the activity of Arrestin C antibody (MBS9602062) |
| **Molecular Weight** | 42,778 Da |
| **Chromosome Location** | Chromosome: X; NC_000023.10 (69488185..69501690). Location: Xcen-q21 |
| **OMIM** | 301770 |
| **Supply Chain Verification** | Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire. |
| **Notes** | For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for ARR3 blocking peptide** | Blocking/Control |
| **Related Product Information for ARR3 blocking peptide** | Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody. |
| **Other Notes** | Small volumes of ARR3 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 ARR3 purchase** | MBS9619517 is a blocking peptide targeting ARR3. Also known as Arrestin C Blocking Peptide. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ARR3. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 156071467 |
| **NCBI GeneID** | 407 |
| **NCBI Accession #** | NP_004303.2 |
| **UniProt Primary Accession #** | P36575 |
| **UniProt Secondary Accession #** | Q5JT23; Q5JT24; Q6IBF5; Q96EN2; B5B0B9 |

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| **UniProt Related Accession #** | P36575 |
| **GenBank Nucleotide #** | NM_004312.2 |
| **NCBI Official Full Name** | arrestin-C |
| **NCBI Official Synonym Full Names** | arrestin 3, retinal (X-arrestin) |
| **NCBI Official Symbol** | ARR3 |
| **NCBI Official Synonym Symbols** | ARRX |
| **UniProt Protein Name** | Arrestin-C |
| **UniProt Synonym Protein Names** | Cone arrestin; C-arrestin; cArr; Retinal cone arrestin-3; X-arrestin |
| **Protein Family** | Arrestin |
| **UniProt Gene Name** | ARR3 |
| **UniProt Synonym Gene Names** | ARRX; CAR; C-arrestin; cArr |
| **UniProt Entry Name** | ARRC_HUMAN |
| **NCBI Protein Information** | arrestin-C; cArr; C-arrestin; X-arrestin; arrestin 4; cone arrestin; retinal cone arrestin-3 |
| **UniProt Comments for ARR3** | ARR3: May play a role in an as yet undefined retina-specific signal transduction. Could binds to photoactivated-phosphorylated red/green opsins. Belongs to the arrestin family. 2 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Adaptor/scaffold<br><br>Chromosomal Location of Human Ortholog: Xcen-q21<br><br>Cellular Component: photoreceptor inner segment; photoreceptor outer segment; cytoplasm; synapse<br><br>Molecular Function: protein binding; opsin binding; phosphoprotein binding<br><br>Biological Process: regulation of protein amino acid phosphorylation; visual perception; endocytosis; signal transduction |
| **Research Articles on ARR3** | **1.** These data suggest cell type- and subcellular compartment-dependent differences in GRK/arrestin-mediated desensitization and signaling. |
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