# SEC63 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

## PRODUCT OVERVIEW

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| **Product Name** | SEC63, Blocking Peptide |
| **Full Product Name** | SEC63 Blocking Peptide |
| **Product Gene Name** | SEC63 blocking peptide |
| **Product Synonym Names** | ERdj2; PRO2507; SEC 63; SEC63L; Translocation protein SEC63 homolog |
| **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** | SEC63 peptide (MBS9621176) is used for blocking the activity of SEC63 antibody (MBS9603699) |
| **Molecular Weight** | 87,997 Da |
| **OMIM** | 174050 |
| **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 SEC63 blocking peptide** | Blocking/Control |
| **Related Product Information for SEC63 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 SEC63 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 SEC63 purchase** | MBS9621176 is a blocking peptide targeting SEC63. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SEC63. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 6005872 |
| **NCBI GeneID** | 11231 |
| **NCBI Accession #** | NP_009145.1 |
| **UniProt Primary Accession #** | Q9UGP8 |
| **UniProt Secondary Accession #** | O95380; Q5THN4; Q86VS9; Q8IWL0; Q9NTE0 |
| **UniProt Related Accession #** | Q9UGP8 |

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| **GenBank Nucleotide #** | NM_007214.4 |
| **NCBI Official Full Name** | translocation protein SEC63 homolog |
| **NCBI Official Synonym Full Names** | SEC63 homolog (S. cerevisiae) |
| **NCBI Official Symbol** | SEC63 |
| **NCBI Official Synonym Symbols** | ERdj2; SEC63L; DNAJC23; PRO2507 |
| **UniProt Protein Name** | Translocation protein SEC63 homolog |
| **Protein Family** | Protein translocation protein |
| **UniProt Gene Name** | SEC63 |
| **UniProt Synonym Gene Names** | SEC63L |
| **UniProt Entry Name** | SEC63_HUMAN |
| **NCBI Protein Information** | translocation protein SEC63 homolog |
| **UniProt Comments for SEC63** | SEC63: Required for integral membrane and secreted preprotein translocation across the endoplasmic reticulum membrane. Defects in SEC63 are a cause of polycystic liver disease (PCLD). PCLD is an autosomal dominant disorder and is characterized by the presence of multiple liver cysts of biliary epithelial origin.<br><br>Protein type: Membrane protein, multi-pass; Endoplasmic reticulum; Membrane protein, integral<br><br>Chromosomal Location of Human Ortholog: 6q21<br><br>Cellular Component: endoplasmic reticulum membrane; membrane; endoplasmic reticulum; integral to membrane<br><br>Molecular Function: protein binding; receptor activity; protein transporter activity<br><br>Biological Process: SRP-dependent cotranslational protein targeting to membrane; posttranslational protein targeting to membrane, translocation; nitrogen compound metabolic process; multicellular organismal aging; posttranslational protein targeting to membrane; liver development; protein targeting to membrane<br><br>Disease: Polycystic Liver Disease |
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