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

## PRODUCT OVERVIEW

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| **Product Name** | PARN, Blocking Peptide |
| **Full Product Name** | PARN Blocking Peptide |
| **Product Gene Name** | PARN blocking peptide |
| **Product Synonym Gene Name** | DAN |
| **Product Synonym Names** | DAN; Deadenylating nuclease; Deadenylation nuclease; PARN; PARN_HUMAN; Poly A specific ribonuclease; Poly(A) specific ribonuclease; Poly(A)-specific ribonuclease PARN; Polyadenylate specific ribonuclease; Polyadenylate-specific ribonuclease |
| **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** | PARN peptide (MBS9622326) is used for blocking the activity of PARN antibody (MBS9612382) |
| **Molecular Weight** | 639 |
| **OMIM** | 604212 |
| **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 PARN blocking peptide** | Blocking/Control |
| **Related Product Information for PARN 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 PARN 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 PARN purchase** | MBS9622326 is a blocking peptide targeting PARN. |

## ADDITIONAL DETAILS

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

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| **NCBI GI #** | 60390262 |
| **NCBI GeneID** | 5073 |
| **NCBI Accession #** | O95453.1 |
| **UniProt Primary Accession #** | O95453 |

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| **UniProt Secondary Accession #** | B2RCB3; B4DDG8; B4DSB0; B4DWR4; B4E1H6 |
| **UniProt Related Accession #** | O95453 |
| **NCBI Official Full Name** | Poly(A)-specific ribonuclease PARN |
| **NCBI Official Synonym Full Names** | poly(A)-specific ribonuclease |
| **NCBI Official Symbol** | PARN |
| **NCBI Official Synonym Symbols** | DAN |
| **UniProt Protein Name** | Poly(A)-specific ribonuclease PARN |
| **UniProt Synonym Protein Names** | Deadenylating nuclease; Deadenylation nuclease; Polyadenylate-specific ribonuclease |
| **Protein Family** | Poly(A)-specific ribonuclease |
| **UniProt Gene Name** | PARN |
| **UniProt Synonym Gene Names** | DAN |
| **UniProt Entry Name** | PARN_HUMAN |
| **NCBI Protein Information** | poly(A)-specific ribonuclease PARN; poly(A)-specific ribonuclease PARN; deadenylating nuclease; deadenylation nuclease; polyadenylate-specific ribonuclease; poly(A)-specific ribonuclease (deadenylation nuclease) |
| **NCBI Summary for PARN** | The protein encoded by this gene is a 3'-exoribonuclease, with similarity to the RNase D family of 3'-exonucleases. It prefers poly(A) as the substrate, hence, efficiently degrades poly(A) tails of mRNAs. Exonucleolytic degradation of the poly(A) tail is often the first step in the decay of eukaryotic mRNAs. This protein is also involved in silencing of certain maternal mRNAs during oocyte maturation and early embryonic development, as well as in nonsense-mediated decay (NMD) of mRNAs that contain premature stop codons. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2008] |
| **UniProt Comments for PARN** | PARN: 3'-exoribonuclease that has a preference for poly(A) tails of mRNAs, thereby efficiently degrading poly(A) tails. Exonucleolytic degradation of the poly(A) tail is often the first step in the decay of eukaryotic mRNAs and is also used to silence certain maternal mRNAs translationally during oocyte maturation and early embryonic development. Interacts with both the 3'-end poly(A) tail and the 5'-end cap structure during degradation, the interaction with the cap structure being required for an efficient degradation of poly(A) tails. Involved in nonsense-mediated mRNA decay, a critical process of selective degradation of mRNAs that contain premature stop codons. Also involved in degradation of inherently unstable mRNAs that contain AU-rich elements (AREs) in their 3'-UTR, possibly via its interaction with KHSRP. Probably mediates the removal of poly(A) tails of AREs mRNAs, which constitutes the first step of destabilization. Homodimer. Interacts with KHSRP and CELF1/CUGBP1. Found in a mRNA decay complex with RENT1, RENT2 and RENT3B. Ubiquitous. Belongs to the CAF1 family. 3 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Ribonuclease; RNA-binding; EC 3.1.13.4; Nucleolus<br><br>Chromosomal Location of Human Ortholog: 16p13<br><br>Cellular Component: cytoplasm; nucleolus; cytosol; nucleus<br><br>Molecular Function: protein binding; poly(A)-specific ribonuclease activity; nuclease activity; mRNA 3'-UTR binding; metal ion binding; nucleotide binding; protein kinase binding<br><br>Biological Process: poly(A) tail shortening; RNA modification; mRNA catabolic process, nonsense-mediated decay; female gamete generation; gene expression; mRNA catabolic process, deadenylation-dependent decay<br><br>Disease: Pulmonary Fibrosis And/or Bone Marrow Failure, Telomere-related, 4; Dyskeratosis Congenita, Autosomal Recessive, 6 |
| **Research Articles on PARN** | **1.** Both R3H and RRM domains were essential for the high affinity of long poly(A) substrate. |

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