# NCK-Interacting Protein with SH3 Domain (NCKIPSD) Human Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | NCK-interacting protein with SH3 domain (NCKIPSD), Recombinant Protein |
| **Full Product Name** | Recombinant Human NCK-interacting protein with SH3 domain (NCKIPSD) |
| **Product Gene Name** | NCKIPSD recombinant protein |
| **Product Synonym Gene Name** | NCKIPSD |
| **Sequence** | MYRALYAFRS AEPNALAFAA GETFLVLERS SAHWWLAARA RSGETGYVPP AYLRRLQGLE QDVLQAIDRA IEAVHNTAMR DGGKYSLEQR GVLQKLIHHR KETLSRRGPS ASSVAVMTSS TSDHHLDAAA ARQPNGVCRA GFERQHSLPS SEHLGADGGL YQIPLPSSQI PPQPRRAAPT TPPPPVKRRD REALMASGSG GHNTMPSGGN SVSSGSSVSS TSLDTLYTSS SPSEPGSSCS PTPPPVPRRG THTTVSQVQP PPSKASAPEP PAEEEVATGT TSASDDLEAL GTLSLGTTEE KAAAEAAVPR TIGAELMELV RRNTGLSHEL CRVAIGIIVG HIQASVPASS PVMEQVLLSL VEGKDLSMAL PSGQVCHDQQ RLEVIFADLA RRKDDAQQRS WALYEDEGVI RCYLEELLHI LTDADPEVCK KMCKRNEFES VLALVAYYQM EHRASLRLLL LKCFGAMCSL DAAIISTLVS SVLPVELARD MQTDTQDHQK LCYSALILAM VFSMGEAVPY AHYEHLGTPF AQFLLNIVED GLPLDTTEQL PDLCVNLLLA LNLHLPAADQ NVIMAALSKH ANVKIFSEKL LLLLNRGDDP VRIFKHEPQP PHSVLKFLQD VFGSPATAAI FYHTDMMALI DITVRHIADL SPGDKLRMEY LSLMHAIVRT TPYLQHRHRL PDLQAILRRI LNEEETSPQC QMDRMIVREM CKEFLVLGEA PS |
| **Host** | E Coli or Yeast or Baculovirus or Mammalian Cell |
| **Form/Format** | Lyophilized or liquid (Format to be determined during the manufacturing process) |
| **Purity/Purification** | Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific) |
| **Preparation and Storage** | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |
| **Molecular Weight** | 64,196 Da |
| **Sequence Positions** | 1-722, Full length protein |
| **Tag Information** | This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information. |
| **Sterility** | Sterile filter available upon request. |
| **Endotoxin** | Low endotoxin available upon request. |
| **OMIM** | 606671 |
| **3D Structure** | ModBase 3D Structure for Q9NZQ3 |
| **Species** | Human |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for NCKIPSD recombinant protein** | This protein is localized exclusively in the cell nucleus. It plays a role in signal transduction, and may function in the maintenance of sarcomeres and in the assembly of myofibrils into sarcomeres. It also plays an important role in stress fiber formation. The gene is involved in therapy-related leukemia by a chromosomal translocation t(3;11)(p21;q23) that involves this gene and the myeloid<br>lymphoid leukemia gene. Alternative splicing occurs in this locus and two transcript variants encoding distinct isoforms have been identified. |
| **Other Notes** | Small volumes of NCKIPSD recombinant protein 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. |

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| **Searchable Terms for NCKIPSD purchase** | MBS1396596 is a recombinant protein targeting NCKIPSD. Also known as Recombinant Human NCK-interacting protein with SH3 domain (NCKIPSD). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |

## ADDITIONAL DETAILS

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

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| **NCBI GI #** | 7705266 |
| **NCBI GeneID** | 51517 |
| **NCBI Accession #** | NP_057537.1 |
| **UniProt Primary Accession #** | Q9NZQ3 |
| **UniProt Secondary Accession #** | Q6GU34; Q6SPF3; Q8TC10; Q9UGM8; B4DFL5 |
| **UniProt Related Accession #** | Q9NZQ3 |
| **GenBank Nucleotide #** | NM_016453.3 |
| **NCBI Official Full Name** | NCK-interacting protein with SH3 domain isoform 1 |
| **NCBI Official Synonym Full Names** | NCK interacting protein with SH3 domain |
| **NCBI Official Symbol** | NCKIPSD |
| **NCBI Official Synonym Symbols** | DIP; DIP1; ORF1; WISH; VIP54; AF3P21; SPIN90; WASLBP |
| **UniProt Protein Name** | NCK-interacting protein with SH3 domain |
| **UniProt Synonym Protein Names** | 54 kDa VacA-interacting protein; 54 kDa vimentin-interacting protein; VIP54; 90 kDa SH3 protein interacting with Nck; AF3p21; Dia-interacting protein 1; DIP-1; Diaphanous protein-interacting protein; SH3 adapter protein SPIN90; WASP-interacting SH3-domain protein; WISH; Wiskott-Aldrich syndrome protein-interacting protein |
| **Protein Family** | NCK-interacting protein with SH3 domain |
| **UniProt Gene Name** | NCKIPSD |
| **UniProt Synonym Gene Names** | AF3P21; SPIN90; VIP54; DIP-1; WISH |
| **NCBI Protein Information** | NCK-interacting protein with SH3 domain |
| **NCBI Summary for NCKIPSD** | The protein encoded by this gene is localized exclusively in the cell nucleus. It plays a role in signal transduction, and may function in the maintenance of sarcomeres and in the assembly of myofibrils into sarcomeres. It also plays an important role in stress fiber formation. The gene is involved in therapy-related leukemia by a chromosomal translocation t(3;11)(p21;q23) that involves this gene and the myeloid/lymphoid leukemia gene. Alternative splicing results in multiple transcript variants of this gene. [provided by RefSeq, Jul 2013] |
| **UniProt Comments for NCKIPSD** | Has an important role in stress fiber formation induced by active diaphanous protein homolog 1 (DRF1). Induces microspike formation, in vivo (). In vitro, stimulates N-WASP-induced ARP2/3 complex activation in the absence of CDC42 (). May play an important role in the maintenance of sarcomeres and/or in the assembly of myofibrils into sarcomeres. Implicated in regulation of actin polymerization and cell adhesion. Plays a role in angiogenesis. |
| **Research Articles on NCKIPSD** | **1.** Low SPIN90 expression is associated with Breast Cancer. |
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