# Norrin (NDP) Bovine Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Norrin (NDP), Recombinant Protein |
| **Full Product Name** | Recombinant Bovine Norrin (NDP) |
| **Product Gene Name** | NDP recombinant protein |
| **Product Synonym Gene Name** | NDP |
| **Sequence** | KTESSFMMDS DPQRCMRHHY VDSISHPLYK CSSKMVLLAR CEGHCSQASR SEPLVSFSTV LKQPFRSSCH CCRPQTSKLK ALRLRCSGGM RLTATYRYIL SCHCEECSS |
| **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** | 14,978 Da |
| **Sequence Positions** | 25-133aa; Full Length of Mature 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. |
| **3D Structure** | ModBase 3D Structure for Q2KI78 |
| **Species** | Bovine |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for NDP recombinant protein** | This gene encodes a secreted protein with a cystein-knot motif that activates the Wnt beta-catenin pathway. The protein forms disulfide-linked oligomers in the extracellular matrix. Mutations in this gene result in Norrie disease and X-linked exudative vitreoretinopathy. |
| **Other Notes** | Small volumes of NDP 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. |
| **Searchable Terms for NDP purchase** | MBS1331448 is a recombinant protein targeting NDP. Also known as Recombinant Bovine Norrin (NDP). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |

## ADDITIONAL DETAILS

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

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| **NCBI GI #** | 114052527 |
| **NCBI GeneID** | 511596 |
| **NCBI Accession #** | NP_001039555.1 |
| **UniProt Primary Accession #** | Q2KI78 |

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| **UniProt Related Accession #** | Q2KI78 |
| **GenBank Nucleotide #** | NM_001046090.2 |
| **NCBI Official Full Name** | norrin |
| **NCBI Official Synonym Full Names** | NDP, norrin cystine knot growth factor |
| **NCBI Official Symbol** | NDP |
| **UniProt Protein Name** | Norrin |
| **UniProt Synonym Protein Names** | Norrie disease protein homolog |
| **Protein Family** | Norrin |
| **UniProt Gene Name** | NDP |
| **NCBI Protein Information** | norrin |
| **UniProt Comments for NDP** | Activates the canonical Wnt signaling pathway through FZD4 and LRP5 coreceptor. Plays a central role in retinal vascularization by acting as a ligand for FZD4 that signals via stabilizing beta-catenin (CTNNB1) and activating LEF/TCF-mediated transcriptional programs. Acts in concert with TSPAN12 to activate FZD4 independently of the Wnt-dependent activation of FZD4, suggesting the existence of a Wnt-independent signaling that also promote accumulation the beta-catenin (CTNNB1). May be involved in a pathway that regulates neural cell differentiation and proliferation. Possible role in neuroectodermal cell-cell interaction (). |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
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