

# Recombinant human Norrin protein

Catalog Number: ATGP2290

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

25-133aa

### UniProt No.

Q00604

### NCBI Accession No.

NP\_000257.1

### Alternative Names

Norrin, EVR2, FEVR, ND, NDP

## PRODUCT SPECIFICATION

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### Molecular Weight

14.8 kDa (132aa)

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

### Purity

> 80% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Norrin precursor, also known as NDP, is a secreted regulatory protein. It activates the canonical Wnt signaling pathway through FZD4 and LRP5 coreceptor. This protein 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. It may be involved in a pathway that regulates neural cell differentiation and proliferation. Recombinant human NDP protein, fused to His-tag at N-terminus, was expressed in E. coli.

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## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>KTDSSFI MDSDPRRCMR HHYVDSISHP LYKCSSKMVL LARCEGHCSQ  
ASRSEPLVSF STVLKQPFRS SCHCCRPQTS KLKALRLRCS GGMRLTATYR YILSCHCEEC NS

## General References

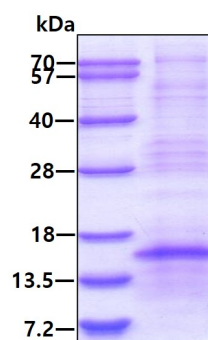
Luhmann u F., et al. (2005) Invest Ophthalmol Vis Sci. 46:3372-3382.

Luhmann u F., et al. (2005) Genesis. 42:253-262

## DATA

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### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.