

Recombinant Mouse NDP Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51442

Size: 10ug, 100ug

Protein Name: Norrin (Norrie disease protein homolog)

Synonym: Ndp, Ndph

UniProt ID: P48744

UniProt Link: www.uniprot.org/uniprotkb/P48744/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 131 AA

Molecular Weight: 15 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MRNHVLAASISMLSLLAIMGDTDSKTDSSFLMDSQRCMRHHYVDSISHPLYKCSSKMVLLARCEGH
CSQASRSEPLVSFSTVLKQPFRSSCHCCRPQTSKLKALRLRCSSGGMRLTATYRYILSCHCEECS

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Norrin (Norrie disease protein homolog) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: 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.

Subcellular Localization: Secreted .

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.