

Product Data Sheet

Product Name: NDP Human
 Cat. No.: GP24023
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	800x600 Norrin; EVR2; FEVR; ND; Norrie disease protein; X-linked exudative vitreoretinopathy 2 protein; NDP; Norrie Disease. Normal 0 false false false EN-US X-NONE HE MicrosoftInternetExplorer4 /* Style Definitions */ table.MsoNormalTable{mso-style-name:"Table Normal";mso-tstyle-rowband-size:0;mso-tstyle-colband-size:0;mso-style-noshow:yes;mso-style-priority:99;mso-style-parent:"";mso-padding-alt:0cm 5.4pt 0cm 5.4pt;mso-para-margin:0cm;mso-para-margin-bottom:.0001pt;mso-pagination:widow-orphan;font-size:10.0pt;font-family:"Calibri","sans-serif";}		
Amino Acid Sequence	800x600 MGSSHHHHHSSGLVPRGSH MGSKTDSSFIMDSDPRRCMR HHYVDSISHP LYKCSSKMVL LARCEGHCSQ ASRSEPLVSF STVLKQPFRS SCHCCRPQTSKALKALRLRCS GGMRLTATYR YILSCHCEEC NS. Normal 0 false false false EN-US X-NONE HE MicrosoftInternetExplorer4 /* Style Definitions */ table.MsoNormalTable{mso-style-name:"Table Normal";mso-tstyle-rowband-size:0;mso-tstyle-colband-size:0;mso-style-noshow:yes;mso-style-priority:99;mso-style-parent:"";mso-padding-alt:0cm 5.4pt 0cm 5.4pt;mso-para-margin:0cm;mso-para-margin-bottom:.0001pt;mso-pagination:widow-orphan;font-size:10.0pt;font-family:"Calibri","sans-serif";}		
Formulation	800x600 The NDP solution (0.5mg/ml) contains 20mM Tris-HCl buffer(pH 8.0), 0.4M Urea and 10% glycerol.		

Introduction

Norrie Disease (NDP) is a secreted regulatory protein which activates the canonical Wnt signaling pathway through FZD4 and LRP5 coreceptor. NDP takes part in retinal

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vascularization by acting as a ligand for FZD4 which signals through stabilizing beta-catenin (CTNNB1) and activating LEF/TCF-mediated transcriptional programs. NDP is involved in a pathway that regulates neural cell differentiation and proliferation and also in neuroectodermal cell-cell interaction.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

NDP Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 132 amino acids (25-133) and having a molecular mass of 14.8 kDa. NDP is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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