



**LD Biopharma, Inc.**  
9924 Mesa Rim Road Suite B  
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## - PRODUCT DATA SHEET -

**Name of Product:** Recombinant Human PPIH Protein  
**Catalog Number:** hRP-0486  
**Manufacturer:** LD Biopharma, Inc.

### Introduction

The protein encoded by this gene is a member of the peptidyl-prolyl cis-trans isomerase (PPIase) family. PPIases catalyze the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and accelerate the folding of proteins. This protein is a specific component of the complex that includes pre-mRNA processing factors PRPF3, PRPF4, and PRPF18, as well as U4/U5/U6 tri-snRNP. This protein has been shown to possess PPIase activity and may act as a protein chaperone that mediates the interactions between different proteins inside the spliceosome.

Full length human PPIH gene was constructed with N-terminal 17 aa (T7) tag. This protein was expressed in *E. coli* as inclusion bodies, refolded using our unique “temperature shift inclusion body refolding” technology and chromatographically purified.

**Gene Symbol:** PPIH ( CYP-20; CYPH; SnuCyp-20; USA\_CYP )  
**Accession Number:** NP\_006338  
**Species:** Human  
**Size:** 50 µg / Vial  
**Composition:** 1.0 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, arginine, DTT and Glycerol.  
**Storage:** In Liquid. Keep at -20°C for long term storage. Product is stable at 4 °C for at least 30 days.

### Key References

Ingelfinger,D., et al., *Two protein-protein interaction sites on the spliceosome-associated human cyclophilin CypH*. Nucleic Acids Res. 31 (16), 4791-4796 (2003)



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Horowitz, D.S., et al., *A cyclophilin functions in pre-mRNA splicing*, EMBO J. 21 (3), 470-480 (2002)

## **Applications**

1. May be used for human spliceosome regulation study in vitro,
2. May be used as specific substrate protein for kinase and ubiquitin enzymes.
3. May be used for enzymatic assay.

## **Quality Control**

1. Purity: > 90% by SDS-PAGE.
2. Functional Test: Not tested yet.

## **Recombinant Protein Sequence**

MASMTGGQQMGRGEFGSAVANSSPVNPVVFFDVSIGGQEVGRMKIELFADVVPKTAENFRQFCT  
GEFRKDGVP IGYKGSTFHRVIKDFMIQGGDFVNGDGTGVAS IYRGPFADENFKLRHSAPGLLSM  
ANSGPSTNGCQFFITCSKCDWLDGKHVVFVKI IDGLLLVMRKIENVPTGPNNKPKLPVVISQCGE  
M