



**LD Biopharma, Inc.**  
9924 Mesa Rim Road Suite B  
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<http://www.ldbiopharma.com>

## - PRODUCT DATA SHEET -

**Name of Product:** Recombinant Human MPHOSPH6 Protein  
**Catalog Number:** hRP-0892  
**Manufacturer:** LD Biopharma, Inc.

### Introduction

The exosome is a complex of 3'–5' exoribonucleases and RNA-binding proteins, which is involved in processing or degradation of different classes of RNA. In human cells, C1D, KIAA0052/hMtr4p are associated with the exosome and thus might regulate its functional activities. Human M-phase phosphoprotein 6 (MPHOSPH6) is RNA-binding protein, as one of member which identified in exosome complex, has recently been identified to interacts with C1D and hMtr4P. So, MPHOSPH6 may plays a role in the recruitment of the exosome to pre-rRNA to mediate the 3' end processing of the 5.8S rRNA.

Full-length mature human MPHOSPH6 (160aa) gene was constructed with 15 aa N-terminal T7 tag and expressed in E.coli as inclusion bodies. The final product was refolded using our unique “temperature shift inclusion body refolding” technology and chromatographically purified.

**Gene Symbol:** MPHOSPH6 (MPP; MPP-6; MPP6)  
**Accession Number:** NP\_005783  
**Species:** Human  
**Size:** 50 µg / Vial  
**Composition:** 0.5 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, sucrose and DTT.  
**Storage:** In Liquid. Keep at -80°C for long term storage. Product is stable at 4 °C for at least 30 days.

### Key References

Schilders,G., et al., *C1D and hMtr4p associate with the human exosome subunit PM/Sc1-100 and are involved in pre-rRNA processing.* Nucleic Acids Res. 35 (8), 2564-2572 (2007)



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Schilders, G., *MPP6 is an exosome-associated RNA-binding protein involved in 5.8S rRNA maturation*. Nucleic Acids Res. 33 (21), 6795-6804 (2005)

## **Applications**

1. May be used for in vitro MPHOSPH6 mediated 5.8s rRNA maturation regulation study with “ProFectin” based intracellular delivery of this protein.
2. As soluble / native protein, may be used as enzymatic substrate protein for kinase and ubiquitin assay development.
3. May be used for mapping MPHOSPH6 protein-protein interaction.
4. Potential diagnostic biomarker for gastrointestinal stromal tumors.
5. May be used as antigen for specific antibody development.

## **Quality Control**

1. Purity: > 90% by SDS-PAGE.

## **Recombinant Protein Sequence**

MASMTGGQQMGRGEFMAAERKTRLSKNLLRMKFMQRGLDSETKKQLEEEKIISEEHWYLDLP  
ELKEKESFIIIEEQSFLLCEDLLYGRMSFRGFNPEVEKLMMLQMNAKHKAEVEDETVELDVSDDE  
MARRYETLVGTIGKKFARKRDHANYEEDENGDI TPIKAKKMFLKPQD