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# Recombinant human PFDN1 protein

Catalog Number: ATGP0770

#### **PRODUCT INFORMATION**

## **Expression system**

E.coli

#### **Domain**

14-122aa

#### UniProt No.

060925

#### **NCBI Accession No.**

NP 002613

#### **Alternative Names**

Prefoldin subunit 1, PDF, PFD1

# PRODUCT SPECIFICATION

## **Molecular Weight**

15kDa (130aa) confirmed by MALDI-TOF

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

### **Application**

SDS-PAGE

## **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**

#### **Description**

PFDN1 is one of sixsubunits of prefoldin, a heterohexameric chaperone protein which assists in the correct folding of other proteins. This protein delivers nonnative target proteins, principally actins and tubulins, to the eukaryotic cytosolic chaperonin for facilitated folding. Defects in PFDN1 displayed phenotypes characteristic of defects in cytoskeletal function, including manifestations of ciliary dyskinesia, neuronal loss, and defects in B and T cell development and function. Recombinant human PFDN1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.



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# **Amino acid Sequence**

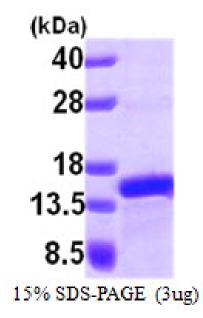
MGSSHHHHHH SSGLVPRGSH MTELQAKVID TQQKVKLADI QIEQLNRTKK HAHLTDTEIM TLVDETNMYE GVGRMFILQS KEAIHSQLLE KQKIAEEKIK ELEQKKSYLE RSVKEAEDNI REMLMARRAQ

#### **General References**

Ruley HE., et al. (2008) J Immunol. 181(1):476-84. Cowan NJ., et al (2004) J Biol Chem. 279(6):4196-203.

# **DATA**

#### **SDS-PAGE**



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

