

Recombinant human PFDN1 protein

Catalog Number: ATGP0770

PRODUCT INFORMATION

Expression system

E.coli

Domain

14-122aa

UniProt No.

O60925

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 six subunits 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 TLVDETMYE GVGRMFIQSQ
KEAIHSQLE 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.

