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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 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

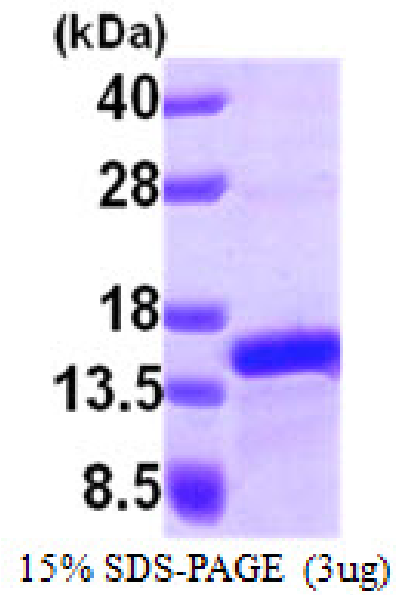
MGSSHHHHHH SSGLVPRGSH MTELQAKVID TQQKVKLADI QIEQLNRTKK HAHLTDTEIM TLVDETNMYE GVGRMFILQS KEAIHSQLLE KQKIAEEKIK ELEQKKSYLE RSVKEAEDNI REMLMARRAQ

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.