

Human PFDN4 / PFD4 Protein (His Tag)



Sino Biological
Biological Solution Specialist

Catalog Number: 14144-H07E

General Information

Gene Name Synonym:

C1; PFD4

Protein Construction:

A DNA sequence encoding the mature form of human PFDN4 (Q9NQP4) (Met1-Ser134) was expressed with a polyhistide tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 80 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: His

Molecular Mass:

The recombinant human PFDN4 consists of 149 amino acids and predicts a molecular mass of 17.2 KDa. It migrates as an approximately 18 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, 5% Glycerol, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

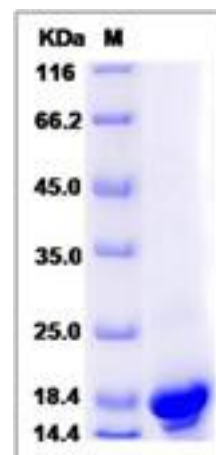
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

PFDN4 is a member of the prefoldin beta subunit family. It is one of six subunits of prefoldin, a molecular chaperone complex that binds and stabilizes newly synthesized polypeptides, thereby allowing them to fold correctly. The complex, consisting of two alpha and four beta subunits, forms a double beta barrel assembly with six protruding coiled-coils. PFDN4 binds specifically to cytosolic chaperonin (c-CPN) and transfers target proteins to it. PFDN4 also binds to nascent polypeptide chain and promotes folding in an environment in which there are many competing pathways for nonnative proteins.

References

1. Iijima M, *et al.* (1996) Cloning of cDNA with possible transcription factor activity at the G1-S phase transition in human fibroblast cell lines. *Acta Med Okayama*. 50(2):73-7. 2. Hartl FU, *et al.* (2002) Molecular chaperones in the cytosol: from nascent chain to folded protein. *Science*. 295(5561):1852-8. 3. Vainberg I, *et al.* (1998) Prefoldin, a chaperone that delivers unfolded proteins to cytosolic chaperonin. *Cell*. 93(5):863-73.

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