

## PFDN2 Protein, Human, Recombinant (His) V2

### General Information

Synonyms:	prefoldin subunit 2;PFD2
Protein Construction:	Met1-Ser154
Species:	Human
Expression Host:	E. coli
Accession:	Q9UHV9
Molecular Weight:	18.8 kDa (Predicted); 18 kDa (Reducing conditions)

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it.
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 50 mM NaCl, 1mM DTT, pH 8.0.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Prefoldin Subunit 2 (PFDN2) belongs to the Prefoldin Beta subunit family. The PFDN2 protein is one of six subunits of Prefoldin that act as a molecular chaperone complex that binds and stabilizes newly synthesized polypeptides allowing them to fold correctly. PFDN2 binds specifically to Cytosolic Chaperonin (c-CPN) and transfers target proteins to it. PFDN2 also binds to a nascent polypeptide chain and promotes folding in settings where there are many competing pathways for non-native proteins.

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