

PFDN4 Protein, Human (His)

Cat. No.:	HY-P71198
Synonyms:	Prefoldin Subunit 4; Protein C-1; PFDN4; PFD4
Species:	Human
Source:	E. coli
Accession:	Q9NQP4 (M1-S134)
Gene ID:	5203
Molecular Weight:	18-20 kDa

PROPERTIES

AA Sequence	<p> M A A T M K K A A A E D V N V T F E D Q Q K I N K F A R N T S R I T E L K E E I E V K K K Q L Q N L E D A C D D I M L A D D D C L M I P Y Q I G D V F I S H S Q E E T Q E M L E E A K K N L Q E E I D A L E S R V E S I Q R V L A D L K V Q L Y A K F G S N I N L E A D E S </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p> PFDN4 protein exhibits precise binding to cytosolic chaperonin (c-CPN), facilitating the targeted transfer of proteins to this chaperone. Additionally, PFDN4 binds to nascent polypeptide chains, actively promoting their proper folding within a cellular environment characterized by numerous competing pathways for nonnative proteins. As a heterohexamer composed of two PFD-alpha type and four PFD-beta type subunits, PFDN4 plays a crucial role in cellular protein homeostasis. Notably, it interacts with URI1 in a phosphorylation-dependent manner, and this interaction is modulated in a growth-dependent fashion, emphasizing the dynamic nature of its cellular functions. </p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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