

PFDN2 Protein, Human (His)

Cat. No.:	HY-P71197
Synonyms:	Prefoldin Subunit 2; PFDN2; PFD2
Species:	Human
Source:	E. coli
Accession:	Q9UHV9 (M1-S154)
Gene ID:	5202
Molecular Weight:	Approximately 19 kDa

PROPERTIES

AA Sequence	<pre> MAENSGRAGK SSGSGAGKGA VSAEQVIAGF NRLRQEQRGL ASKAAELEME LNEHSLVIDT LKEVDETRKC YRMVGGV LVE RTVKEVLPAL ENNKEQIQKI IETLTQQLQA KGKELNEFRE KHNI RLMGED EKPAAKENSE GAGAKASSAG VLVS </pre>
Biological Activity	Data is not available
Appearance	Lyophilized powder.
Formulation	Lyophilized a 0.2 µm filtered solution of 50 mM Tris-HCl, 300 mM NaCl, 5% trehalose, 5% mannitol and 0.01% Tween80, 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.
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>PFDN2 protein exhibits specific binding affinity to cytosolic chaperonin (c-CPN), facilitating the targeted transfer of proteins to this chaperone. Furthermore, PFDN2 interacts with nascent polypeptide chains, actively promoting their proper folding within an intricate cellular environment with numerous competing pathways for nonnative proteins. As a heterohexamer, PFDN2 comprises two PFD-alpha type and four PFD-beta type subunits. It plays a crucial role as part of the PAQosome complex, collaborating with other essential components such as R2TP complex members (RUVBL1, RUVBL2, RPAP3, and PIH1D1) and URI complex members (PFDN6, PDRG1, UXT, and URI1), as well as ASDURF, POLR2E, and DNAAF10/WDR92. This</p>
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complex is integral to the biogenesis of various protein complexes. Notably, PFDN2 engages in phosphorylation-dependent interactions with URI1, demonstrating a growth-dependent manner of interaction.

Caution: Product has not been fully validated for medical applications. For research use only.

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