PFDN5 Protein, Human (His)

Cat. No.:	HY-P76542
Synonyms:	Prefoldin subunit 5; Myc modulator 1; PFDN5; MM1; PFD5
Species:	Human
Source:	E. coli
Accession:	Q99471 (M1-A154)
Gene ID:	5204
Molecular Weight:	Approximately 20 kDa

PROPERTIES

AA Sequence	M A Q S I N I T E L N L P Q L E M L K N Q L D Q E V E F L S T S I A Q L K V V Q T K Y V E A K D C L N V L N K S N E G K E L L V P L T S S M Y V P G K L H D V E H V L I D V G T G Y Y V E K T A E D A K D F F K R K I D F L T K Q M E K I Q P A L Q E K H A M K Q A V M E M M S Q K I Q Q L T A L G A A Q A T A K A
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris, 300 mM NaCl, 5% trehalose, 5% mannitol and 0.01% Tween80, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	PFDN5 protein demonstrates targeted binding to cytosolic chaperonin (c-CPN), facilitating the transfer of specific proteins to this chaperone. Additionally, PFDN5 binds to nascent polypeptide chains, actively supporting their proper folding within a cellular environment teeming with competing pathways for nonnative proteins. Beyond its chaperone function, PFDN5 plays a regulatory role by repressing the transcriptional activity of MYC. Structurally, PFDN5 forms a heterohexamer comprising two PFD-alpha type and four PFD-beta type subunits. Notably, it engages in specific interactions with the N-terminal domain of MYC, suggesting a multifaceted role for PFDN5 in cellular processes, encompassing both protein folding and transcriptional regulation.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA