

## Recombinant Human Prefoldin Subunit 6, His-tagged

**Cat. No.** PFDN6-3407H    **Lot. No.** (See product label)

### SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant human PFDN6 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>                   | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>              | PFDN6, also known as HKE2 or PFD6, is a subunit of the heteromeric prefoldin complex that chaperones nascent actin and alpha- and beta-tubulin chains pending their transfer to the cytosolic chaperonin containing TCP1 (CCT) complex. It binds specifically to cytosolic chaperonin (c-CPN) and transfers target proteins to it and bind to nascent polypeptide chain and promote folding in an environment in which there are many competing pathways for nonnative proteins. |
| <b>Form</b>                     | Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.1M NaCl, 1mM DTT, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Weight</b>         | 16.7 kDa (149aa) confirmed by MALDI-TOF.                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Purity</b>                   | > 95% by SDS - PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Concentration</b>            | 0.5 mg/ml (determined by BCA assay).                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Sequences Of Amino Acids</b> | MGSSHHHHHH SSGLVPRGSH MAELIQKKLQ GEVEKYQQQLQ KDLSKSMGR QKL<br>E AQLTEN NIVKEELALL DGSNVVFKLL GPVLVKQELG EARATVGKRL DYIT AEIK                                                                                                                                                                                                                                                                                                                                                     |

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RY ESQLRDLERQ SEQQRETLAQ LQQEFQRAQA AKAGAPGKA.

**Storage**

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**Pathways**

Metabolism of proteins

## GENE INFORMATION

**Gene Name**

PFDN6 prefoldin subunit 6 [ Homo sapiens ]

**Synonyms**

prefoldin subunit 6; HKE2; KE-2; PFD6; H2-KE2; MGC70744; PFDN6;prefoldin subunit 6; KE2 protein; prefoldin 6; protein Ke2; OTTHUMP00000029360; OTTHUMP00000178657; HLA class II region expressed gene KE2; Protein Ke2

**Gene ID**

10471

**mRNA Refseq**

NM\_001185181

**Protein Refseq**

NP\_001172110

**MIM**

605660

**UniProt ID**

O15212

**Chromosome Location**

6p21.3

**Function**

chaperone binding; protein binding; unfolded protein binding

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