

# Product datasheet for AR09608PU-L

## PDI / P4HB (18-508, His-tag) Human Protein

#### **Product data:**

#### OriGene Technologies, Inc.

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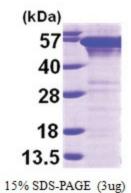
| Product Type:                            | Recombinant Proteins   |
|--|--|
| Description:                             | PDI / P4HB (18-508, His-tag) human recombinant protein, 0.5 mg   |
| Species:                                 | Human  |
| Expression Host:                         | E. coli  |
| Expression cDNA Clone<br>or AA Sequence: | MGSSHHHHHH SSGLVPRGSH MDAPEEEDHV LVLRKSNFAE ALAAHKYLLV EFYAPWCGHC<br>KALAPEYAKA AGKLKAEGSE IRLAKVDATE ESDLAQQYGV RGYPTIKFFR NGDTASPKEY<br>TAGREADDIV NWLKKRTGPA ATTLPDGAAA ESLVESSEVA VIGFFKDVES DSAKQFLQAA EAIDDIPFGI<br>TSNSDVFSKY QLDKDGVVLF KKFDEGRNNF EGEVTKENLL DFIKHNQLPL VIEFTEQTAP KIFGGEIKTH<br>ILLFLPKSVS DYDGKLSNFK TAAESFKGKI LFIFIDSDHT DNQRILEFFG LKKEECPAVR LITLEEEMTK<br>YKPESEELTA ERITEFCHRF LEGKIKPHLM SQELPEDWDK QPVKVLVGKN FEDVAFDEKK<br>NVFVEFYAPW CGHCKQLAPI WDKLGETYKD HENIVIAKMD STANEVEAVK VHSFPTLKFF<br>PASADRTVID YNGERTLDGF KKFLESGGQD GAGDDDDLED LEEAEEPDME EDDDQKAVKD EL |
| Tag:                                     | His-tag  |
| Predicted MW:                            | 57.5 kDa   |
| Concentration:                           | lot specific   |
| Purity:                                  | >90% by SDS-PAGE   |
| Buffer:                                  | Presentation State: Purified<br>State: Liquid purified protein<br>Buffer System: 20 mM Tris-HCl (pH 8.0) containing 10% Glycerol   |
| Preparation:                             | Liquid purified protein  |
| Protein Description:                     | Recombinant human P4HB protein, fused to His-tag at N-terminus, was expressed in E.coli<br>and purified by using conventional chromatography.  |
| Storage:                                 | Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.<br>Avoid repeated freezing and thawing.  |
| Stability:                               | Shelf life: one year from despatch.  |
| RefSeq:                                  | <u>NP 000909</u>   |
| Locus ID:                                | 5034   |
| UniProt ID:                              | <u>P07237, A0A024R8S5</u>  |
|  |  |



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|                  | PDI / P4HB (18-508, His-tag) Human Protein – AR09608PU-L  |
|------------------|---|
| Cytogenetics:    | 17q25.3   |
| Synonyms:        | CLCRP1; DSI; ERBA2L; GIT; P4Hbeta; PDI; PDIA1; PHDB; PO4DB; PO4HB; PROHB  |
| Summary:         | This gene encodes the beta subunit of prolyl 4-hydroxylase, a highly abundant<br>multifunctional enzyme that belongs to the protein disulfide isomerase family. When present<br>as a tetramer consisting of two alpha and two beta subunits, this enzyme is involved in<br>hydroxylation of prolyl residues in preprocollagen. This enzyme is also a disulfide isomerase<br>containing two thioredoxin domains that catalyze the formation, breakage and<br>rearrangement of disulfide bonds. Other known functions include its ability to act as a<br>chaperone that inhibits aggregation of misfolded proteins in a concentration-dependent<br>manner, its ability to bind thyroid hormone, its role in both the influx and efflux of S-<br>nitrosothiol-bound nitric oxide, and its function as a subunit of the microsomal triglyceride<br>transfer protein complex. [provided by RefSeq, Jul 2008] |
| Protein Families | : Druggable Genome  |

### **Product images:**



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