

**P4HB, 18-508aa, Human, His tag, E.coli**

**Cat.NO.: TP03276**

3th Edition

**Synonyms:**Prolyl 4-hydroxylase subunit beta, P4Hbeta, PDI, PDIA1, PHD, PO4DB, PO4HB; ERBA2L.

**Description:**P4HB, prolyl 4 hydroxylase subunit beta, is a multifunctional and highly abundant enzyme that belongs to the protein disulfide isomerase family. When present as a tetramer consisting of two alpha and two beta subunits, this enzyme is involved in hydroxylation of prolyl residues in preprocollagen. This protein is also a disulfide isomerase containing two thioredoxin domains that catalyze the formation, breakage and rearrangement of disulfide bonds.

**Form:**Liquid. In 20 mM Tris-HCl (pH 8.0) containing 10% Glycerol

**Molecular Weight:**57.5 kDa(512aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMDAPEEEDHVLVLRKSNFAEALAAHKYLLVEFYAPWCGHCKALAPEYAKAAGKL  
KAEGSEIRLAKVDATEESDLAQYGVRYPTIKFFRNGDTASPKEYTAGREADDIVNWLKKRTGPAATTLPDGAAA  
ESLVESSEVAVIGFFKDVESDSAQFLQAAEAIDDIPFGITSNSDVFSKYQLDKDGVVLFKGFDEGRNMFEGEVTK  
NLLDFIKHNQLPLVIEFTEQTAPKIFGGEIKTHILLFLPKSVSDYDGKLSNFKTAAESFKGKILFIFIDSDHTDNQRILEFF  
GLKKEECPAVRLITLLEEMTKYKPESEELTAERITEFCHRFLEGKIKPHLMSQELPEDWDKQPVKVLVGKNFEDVAF  
DEKKNVFEFYAPWCGHCKQLAPIWDKLGETYKDHENIVIAKMDSTANEVEAVKVHSFPTLKFFPASADRTVIDYNG  
ERTLDGFKKFLESGGQDGAGDDDDLEDLEEAEPPDMEEDDDQKAVKDEL

**Purity:**> 95% by HPLC

**Concentration:**1 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**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.