

Recombinant Human P4HB, His-tagged

Cat. No. P4HB-2760H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human P4HB protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography.
Species	Human
Source	E.coli
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 procollagen. This protein is also a disulfide isomerase containing two thioredoxin domains that catalyze the formation, breakage and rearrangement of disulfide bonds.
Purity	> 90% by SDS – PAGE.
Sequences	MGSSHHHHHH SSGLVPRGSH MDAPEEEDHV LVLKRSNFAE ALAAHKYLLV EFYAPWCGHC KALAPEYAKA AGKLKAEGSE IRLAKVDATE ESDLAQQYGV RGYPTIKFFR NGDTASPKEY TAGREADDIV NWLKKRTGPA ATTLPDGAAA ESLVESSEVA VIGFFKDVES DSAKQFLQAA EAIDDIPFGI TSNSDVFSKY QLDKDGVVLF KKFDEGRNNF EGEVTKENLL DFIKHNQLPL VIEFTEQTAP KIFGGEIKTH ILLFLPKSVS DYDGKLSNFK TAAESFKGKI LFIFIDSDHT DNQRILEFFG LKKEECPAVR LITLEEEMTK YKPESEELTA ERITEFCHRF LEGKIKPHLM SQELPEDWDK QPVKVLVGKN FEDVAFDEKK NVFVEFYAPW

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CGHCKQLAPI WDKLGETYKD HENIVIAKMD STANEVEAVK VHSFPTLKFF
PASADRTVID YNGERTLDGF KKFLESGGQD GAGDDDDLED LEEAEEPDM
EDDDQKAVKD EL.

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

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

Concentration 1 mg/ml (determined by Bradford assay).

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.

GENE INFORMATION

Gene Name [P4HB prolyl 4-hydroxylase, beta polypeptide \[Homo sapiens \]](#)

Synonyms P4HB; prolyl 4-hydroxylase, beta polypeptide; cellular thyroid hormone-binding protein; collagen prolyl 4-hydroxylase beta; glutathione-insulin transhydrogenase; p55; procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), beta polypeptide; prolyl 4-hydroxylase subunit beta; protein disulfide isomerase family A, member 1; protein disulfide isomerase-associated 1; protein disulfide isomerase/oxidoreductase; protein disulfide-isomerase; procollagen hydroxylase; thyroid hormone-binding protein p55; v-erb-a avian erythroblastic leukemia viral oncogene homolog 2-like; DSI; GIT; PDI; PHDB; PDIA1; PO4DB; PO4HB; PROHB; ERBA2L; P4Hbeta; EC 5.3.4.1

Gene ID [5034](#)

mRNA Refseq [NM_000918](#)

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Protein Refseq	NP_000909
MIM	176790
UniProt ID	P07237
Chromosome Location	17q25
Pathway	Lipid digestion, mobilization, and transport; Metabolism of lipids and lipoproteins
Function	isomerase activity; procollagen-proline 4-dioxygenase activity; protein binding; protein disulfide isomerase activity
PDB rendering based on 1bjx.	