

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 *E. coli* 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 MGSSHHHHH 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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



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.



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