

## Recombinant Human P4HB, MYC/DDK-tagged

Cat. No. P4HB-116H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human P4HB fused with C-terminal MYC/DDK, was expressed in HEK293 Cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	<p>This gene encodes the beta subunit of prolyl 4-hydroxylase, a highly abundant multifunctional 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 enzyme is also a disulfide isomerase containing two thioredoxin domains that catalyze the formation, breakage and rearrangement of disulfide bonds. Other known functions include its ability to act as a chaperone that inhibits aggregation of misfolded proteins in a concentration-dependent manner, its ability to bind thyroid hormone, its role in both the influx and efflux of S-nitrosothiol-bound nitric oxide, and its function as a subunit of the microsomal triglyceride transfer protein complex.</p>
<b>Molecular Mass</b>	55.2 kDa
<b>Purity</b>	>80% as determined by SDS-PAGE and Coomassie blue staining
<b>Storage</b>	Store at -80C. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.

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**Concentration** >50 ug/mL as determined by microplate BCA method

**Storage Buffer** 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

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

**Official Symbol** P4HB

**Synonyms**

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

**Gene ID** 5034

**mRNA Refseq** NM\_000918

**Protein Refseq** NP\_000909

**MIM** 176790

**UniProt ID** P07237

**Chromosome Location** 17q25

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<b>Pathway</b>	Chylomicron-mediated lipid transport; Collagen biosynthesis and modifying enzymes; Collagen formation
<b>Function</b>	electron carrier activity; procollagen-proline 4-dioxygenase activity; protein binding

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