Recombinant Human P4HB, His-tagged

Cat. No. P4HB-30545TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human P4HB fused at the N terminal to a His-tag, predicted Mwt: 58 kDa.
Species	Human
Source	E.coli
Description	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 preprocollagen. 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.
Conjugation	HIS
Molecular Weight	58.000kDa
Biological activity	>200U/mg
Form	Liquid

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Purity	>95% by SDS-PAGE
Storage buffer	pH: 7.50Constituents:0.61% Tris, 0.88% Sodium chloride, 5% Glycerol, 0.02% DTT, 0.03% EDTA
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the protein disulfide isomerase family.Contains 2 thioredoxin domains.

GENE INFORMATION

Gene Name	P4HB prolyl 4-hydroxylase, beta polypeptide [Homo sapiens]
Official Symbol	P4HB
Synonyms	P4HB; prolyl 4-hydroxylase, beta polypeptide; ERBA2L, PO4DB, procollagen proline, 2 oxoglutarate 4 dioxygenase (proline 4 hydroxylase), beta polypeptide , procollagen proline, 2 oxoglutarate 4 dioxygenase (proline 4 hydroxylase), beta polypeptide (prote
Gene ID	5034
mRNA Refseq	NM_000918
Protein Refseq	NP_000909
MIM	176790
Uniprot ID	P07237
Chromosome	17q25

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Location	
Pathway	Chylomicron-mediated lipid transport, organism-specific biosystem; Lipid digestion, mobilization, and transport, organism-specific biosystem; Lipoprotein metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Protein processing in endoplasmic reticulum, organism-specific biosystem;
Function	electron carrier activity; isomerase activity; procollagen-proline 4-dioxygenase activity; protein binding; protein disulfide isomerase activity;

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