

Recombinant Mouse P4HB Protein, His-tagged

Cat. No. P4HB-33M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse P4HB, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Mouse
Source	Insect Cells
Description	P4HB, also known as protein disulfide-isomerase, prolyl 4-hydroxylase subunit beta, procollagen hydroxylase, cellular thyroid hormone binding protein p55 and glutathione-insulin transhydrogenase, is an abundant multifunctional enzyme that belongs to the protein disulfide isomerase family. At the cell surface, it seems to act as a reductase that cleaves disulfide bonds of proteins attached to the cell.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	56.1kDa (498aa)50-70KDa (SDS-PAGE under reducing conditions)
AA Sequence	DALEEDNVL VLKKSNFEEA LAAHKYLLVE FYAPWCGHCK ALAPEYAKAA AKLKAEGSEI RLAKVDATEE SDLAQQYGVR GYPTIKFFKNGDTASPKEYT AGREADDIVN WLKKRTGPAA TTLSDTAAAE SLVDSSEVTV IGFFKDVESD SAKQFLAAE AIDDIPFGIT SNSGVFSKYQLDKDGVVLFK KFDEGRNNFE GEITKEKLLD FIKHNQLPLV IEFTEQTAPK IFGGEIKTHI LLFLPKSVSD YDGKLSSFKR AAEGFKGKILFIFIDSDHTD NQRILEFFGL KKEECPAVRL ITLEEEMTKY KPESDELTAE KITEFCHRFL EGKIKPHLMS QEVPEDWDKQ PVKVLVGANFEEVAFDEKKN VFVEFYAPWC GHCKQLAPIW DKLGETYKDH

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ENIIIAKMDS TANEVEAVKV HSFPTLKFFP ASADRTVIDY
 NGERTLDGFKKFLESGGQDG AGDDEDLDLE EALEPDMEED DDQKAVKDEL
 LEHHHHHH

Endotoxin < 1.0 EU per 1 microgram of protein (determined by LAL method)

Purity >95% by SDS – PAGE

Storage Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.5mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name P4hb prolyl 4-hydroxylase, beta polypeptide [*Mus musculus*]

Official Symbol P4HB

Synonyms P4HB; prolyl 4-hydroxylase, beta polypeptide; protein disulfide-isomerase; p55; ER protein 59; protein disulfide isomerase; prolyl 4-hydroxylase subunit beta; cellular thyroid hormone-binding protein; endoplasmic reticulum resident protein 59; PDI; Thbp; ERp59; Pdia1;

Gene ID 18453

mRNA Refseq NM_011032

Protein Refseq NP_035162

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

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