

Recombinant Mouse P4hb Protein, His-tagged

Cat. No. P4hb-7294M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse P4hb protein with a His tag was expressed in insect cells.
Species	Mouse
Source	Insect Cells
ProteinLength	20-509
Description	This multifunctional protein catalyzes the formation, breakage and rearrangement of disulfide bonds. At the cell surface, seems to act as a reductase that cleaves disulfide bonds of proteins attached to the cell. May therefore cause structural modifications of exofacial proteins. Inside the cell, seems to form/rearrange disulfide bonds of nascent proteins. At high concentrations, functions as a chaperone that inhibits aggregation of misfolded proteins. At low concentrations, facilitates aggregation (anti-chaperone activity). May be involved with other chaperones in the structural modification of the TG precursor in hormone biogenesis. Also acts a structural subunit of various enzymes such as prolyl 4-hydroxylase and microsomal triacylglycerol transfer protein MTTP. Receptor for LGALS9; the interaction retains P4HB at the cell surface of Th2 T helper cells, increasing disulfide reductase activity at the plasma membrane, altering the plasma membrane redox state and enhancing cell migration.
Form	Liquid
Molecular Mass	56.1 kDa

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AA Sequence	DALEEEEDNVLVLKSNFEEALAAHKYLLVEFYAPWCGHCKALAPEYAKAAAKLKAEG SEIRLAKVDATEESDLAQQYGVRGYPTIKFFKNGDTASPKEYTAGREADDIVNWLKK RTGPAATTLSDTAAAESLVDSSEVTIGFFKDVESDSAKQFLAAEAIDDIPFGITSNS GVFSKYQLDKDGVVLFKKFDEGRNNFEGEITKEKLLDFIKHNQLPLVIEFTEQTAPKIF GGEIKTHILLFLPKSVSDYDGKLSSFKRAAEGFKGKILFIFIDSDHTDNQRILEFFGLKK EECPAVRLITLEEEMTKYPESDELTAEKITEFCHRFLEGKIKPHLMSQEVPEWDWK QPVKVLVGANFEEVAFDEKKNVFVEFYAPWCGHCKQLAPIWDKLGETYKDHENIIIA KMDSTANEVEAVKVHSFPTLKFFPASADRTVIDYNGERTLDGFKKFLES GGQDGAG DDEDLDLEEALPDMEEDDDQKAVKDELLEHHHHHH
Endotoxin	< 1.0 EU/μg of protein (determined by LAL method)
Purity	> 95 % by SDS-PAGE
Stability	Shelf life: one year from despatch.
Storage	Store undiluted at 2-8 centigrade for one week or (in aliquots) at -20 to -80 centigrade for longer. Avoid repeated freezing and thawing.
Concentration	0.5 mg/mL (determined by absorbance at 280nm)
Storage Buffer	Phosphate Buffered Saline (pH 7.4) containing 10 % glycerol.
GENE INFORMATION	
Gene Name	P4hb prolyl 4-hydroxylase, beta polypeptide [<i>Mus musculus</i> (house mouse)]
Official Symbol	P4hb
Synonyms	P4hb; prolyl 4-hydroxylase, beta polypeptide; P; Pd; ERp; PDI; Thb; Thbp; ERp59; Pdia1; protein disulfide-isomerase; ER protein 59; cellular thyroid hormone-binding

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protein; endoplasmic reticulum resident protein 59; p55; prolyl 4-hydroxylase subunit beta; EC 5.3.4.1

Gene ID [18453](#)

mRNA Refseq [NM_011032](#)

Protein Refseq [NP_035162](#)

UniProt ID [P09103](#)

SDS-PAGE

