

Recombinant Mouse P4hb Protein, Myc/DDK-tagged

Cat. No. P4hb-4642M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length prolyl 4-hydroxylase, beta polypeptide (P4hb), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	<p>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 MTP. 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</p>
Molecular Mass	57.1 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and

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handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade after receiving vials.

Concentration >50 µg/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 [*Mus musculus* (house mouse)]

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

UniProt ID P09103

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