

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	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
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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