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P4HB
Recombinant Human Prolyl 4-Hydroxylase Beta His

Catalog No.	CS469A	**Quantity:**	5 µg
	CS469B		25 µg
	CS469C		1 mg

Alternate Names: P4Hbeta, PDI, PDIA1, PHD, PO4DB, PO4HB, ERBA2L

Description: P4HB is a multifunctional and highly abundant enzyme that is part of the protein disulfide isomerase family. When present as a tetramer consisting of two alpha and two beta subunits, P4HB has a role in hydroxylation of prolyl residues in preprocollagen. P4HB is a disulfide isomerase containing two thioredoxin domains that catalyze the formation, breakage and rearrangement of disulfide bonds.

Recombinant Human P4HB is a single, non-glycosylated polypeptide chain containing 512 amino acids (aa 18-508) fused to a 21 amino acid His Tag and purified by conventional chromatography.

Physical Appearance: Sterile Filtered colorless solution.

Gene ID: 5034

Source: *E. coli*

Molecular Mass: 57.5 kDa

Formulation: The P4HB 1mg/ml protein solution contains 20 mM Tris-HCl, pH 8, + 10% glycerol.

Purity: >90.0% as determined by SDS-PAGE.

Amino Acid Sequence: **MGSSHHHHHH SSGLVPRGSH M**DAPEEEDHV LVLRKSNFAE ALAAHKYLLV EFYAPWCGHC KALAPEYAKA AGKLKAEGSE IRLAKVDATE ESDLAQQYGV RGYPTIKFFR NGDTASPKEY TAGREADDIV NWLKKRTGPA ATTLPDGAAA ESLVESSEVA VIGFFKDVES DSAKQFLQAA EAIDDIPFGI TSNSDVFSKY QLDKDGVVLF KKFDEGRNNF EGEVTKENLL DFIKHNQLPL VIEFTEQTAP KIFGGEIKTH ILLFLPKSVS DYDGKLSNFK TAAESFKGKI LFIFIDSDHT DNQRILEFFG LKKEECPAVR LITLEEEMTK YKPESEELTA ERITEFCHRF LEGKIKPHLM SQELPEDWDK QPVKVLVGKN FEDVAFDEKK NVFVEFYAPW CGHCKQLAPI WDKLGETYKD HENIVIAKMD STANEVEAVK VHSFPTLKFF PASADRTVID YNGERTLDGF KKFLESGGQD GAGDDDDLED LEEAEEPDME EDDDQKAVKD EL.

Storage & Stability: Store at 2-4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). **Avoid repeated freeze-thaw cycles.**

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Cell Sciences®
480 Neponset Street
Bldg 12A
Canton, MA 02021

Toll Free: 888-769-1246
Phone: 781-828-0610
Fax: 781-828-0542

E-mail: info@cellsciences.com
Website: www.cellsciences.com