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**Product Data Sheet**


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Product Name: P4HB Human

Cat. No.: GP22040

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	P4Hbeta; PDI; PDIA1; PHD; PO4DB; PO4HB; ERBA2L.		
Amino Acid Sequence	<p>MGSSHHHHHH SGLVPRGSH MDAPEEEDHV LVLKSNFAE 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 LEEAEEPDM          EDDDQKAVKD EL.</p>		
Formulation	The P4HB 1mg/ml protein solution contains 20mM Tris-HCl pH-8, and 10% glycerol.		

**Introduction**

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 procollagen. P4HB is a disulfide isomerase containing two thioredoxin domains that catalyze the formation, breakage and rearrangement of disulfide bonds.

**Stability**

Store at 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%

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

P4HB Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 512 amino acids (18-508 a.a.) and having a molecular mass of 57.5 kDa. The P4HB is fused to a 21 amino acid His Tag and purified by conventional chromatography.

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