

## Recombinant Human P4HB Protein (18-508 aa), His-tagged

**Cat. No.** P4HB-1478H    **Lot. No.** (See product label)

### SPECIFICATION

**Product Overview**      Recombinant Human P4HB Protein (18-508 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Cancer. Protein Description: Full Length of Mature Protein.

**Species**      Human

**Source**      Yeast

**ProteinLength**      18-508 aa

**Description**      This multifunctional protein catalyzes the formation, breakage and rearrangement of disulfide bonds. At the cell surface, it acts as a reductase that cleaves disulfide bonds of proteins attached to the cell. It may therefore cause structural modifications of exofacial proteins. Inside the cell, it acts to form/rearrange disulfide bonds of nascent proteins. At high concentrations, it functions as a chaperone that inhibits aggregation of misfolded proteins. At low concentrations, it facilitates aggregation (anti-chaperone activity). It may be involved with other chaperones in the structural modification of the TG precursor in hormone biogenesis. It also acts as a structural subunit of various enzymes such as prolyl 4-hydroxylase and microsomal triacylglycerol transfer protein MTTP.

**Form**      Tris-based buffer, 50% glycerol

**Molecular Mass**      57.3 kDa

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**AA Sequence**

DAPEEEDHVLVLRKSNFAEALAAHKYLLVEFYAPWCGHCKALAPEYAKAAGKLKAE  
 GSEIRLAKVDATEESDLAQQYGVRYPTIKFFRNGDTASPKEYTAGREADDIVNWLK  
 KRTGPAATTLPDGAAAESLVESSEVAVIGFFKDVESDSAQQLQAAEAIDDIPFGITS  
 NSDVFSKYQLDKDGVVLFKKFDEGRNRFEGEVTKENLLDFIKHNQLPLVIEFTEQTA  
 PKIFGGIEIKTHILLFLPKSVSDYDGKLSNFKTAAESFKGKILFIFIDSDHTDNQRILEFFG  
 LKKEECPAVRLITLEEEMTKYKPESEELTAERITEFCHRFLEGKIKPHLMSQELPEDW  
 DKQPVKVLVGKNFEDVAFDEKKNVFVEFYAPWCGHCKQLAPIWDKLGETYKDHENI  
 VIAKMDSTANEVEAVKVHSFPTLKFFPASADRTVIDYNGERTLDGFKKFLESGGQDG  
 AGDDDDLEDLEEAEPPDMEEDDDQKAVKDEL

**Purity** > 90% as determined by SDS-PAGE.

**Notes** Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

**Storage** The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

**Concentration** A hardcopy of COA with reconstitution instruction is sent along with the products.

## GENE INFORMATION

**Gene Name** P4HB prolyl 4-hydroxylase, beta polypeptide [ Homo sapiens ]

**Official Symbol** P4HB

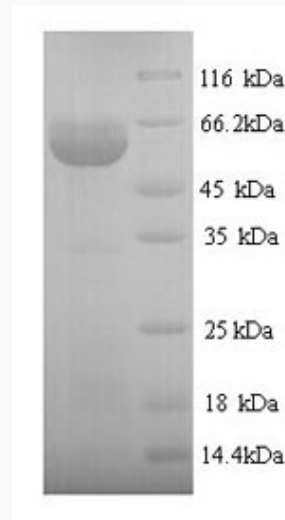
**Synonyms** P4HB; DSI; GIT; P4Hbeta; PDI; PDIA1; PO4HB; PROHB; p55; PHDB; PO4DB; ERBA2L;

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Gene ID	5034
mRNA Refseq	NM_000918
Protein Refseq	NP_000909
MIM	176790
UniProt ID	P07237



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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