

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

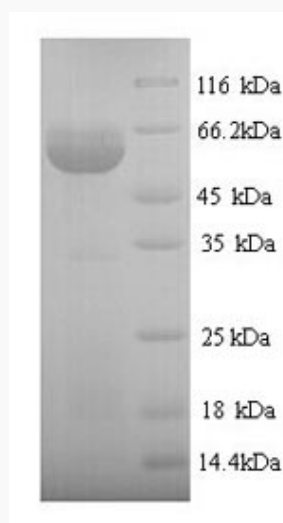
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AA Sequence	DAPEEEDHVLVLRKSNFAEALAAHKYLLVEFYAPWCGHCKALAPEYAKAAGKLKAE GSEIRLAKVDATEESDLAQQYGVGRGYPTIKFFRNGDTASPKEYTAGREADDIVNWLK KRTGPAATTLPDGAASLVESEVAVIGFFKDVESDSAKQFLQAAEAIDDIPFGITS NSDVFSKYQLDKDGVVLFKKFDEGRNRFEGEVTKENLLDFIKHNQLPLVIEFTEQTA PKIFGGIEIKTHILLFLPKSVSDYDGKLSNFKTAAESFKGKILFIFIDSDHTDNQRILEFFG LKKEECPAVRLITLEEEMTKYKPESEELTAERITEFCHRFLEGKIKPHLMSQELPEDW DKQPVKVLVGKNFEDVAFDEKKNVFVEFYAPWCGHCKQLAPIWDKLGETYKDHENI VIAKMDSTANEVEAVKVHSFPTLKFFPASADRTVIDYNGERTLDGFKKFLESGGQDG AGDDDDLEDLEEAEEPDMEEEDDDQKAVKDEL
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;

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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