

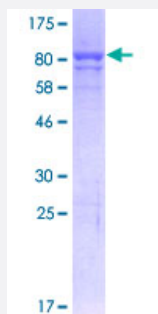
Full-Length

P4HB (Human) Recombinant Protein (P01)

Catalog # H00005034-P01

Size 10 ug, 25 ug

Applications



Specification

Product Description

Human P4HB full-length ORF (NP_000909.2, 1 a.a. - 508 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MLRRALLCLAVAALVRADAPEEEDHVLVLRKSNFAEALAAHKYLLVEFYAPWCGHCKALAPEYA
KAAGKLKAEGSEIRLAKVDATEESDLAQQYGVRYPTIKFFRNGDTASPKEYTAGREADDIVNWL
KKRTGPAATLTPDGAAAESLVESSEVAVIGFFKDVESDSAKQFLQAAEAIDDIPFGITSNSDVFSK
YQLDKDGVVLFKKFDEGRNNFEGEVTKENLLDFIKHNQLPLVIEFTEQTAPKIFGGEIKTHILLFLPK
SVSDYDGKLSNFKTAAESFKGILFIFIDSDHTDNQRILEFFGLKKEECPAVRLITLEEEMTKYPES
EELTAERITEFCHRFLEGKIKPHLMSQELPEDWDKQPVKVLVGKNFEDVAFDEKKNVFVEFYAP
WCGHCKQLAPIWDKLGETYKDHENVIKMDSTANEVEAVKVHSFPTLKFFPASADRTVIDYNGE
RTLDFGKKFLESGGQDGAGDDDDLEEEAEEPDMEEEDDDQKAVKDEL

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

83.5

Interspecies Antigen Sequence

Mouse (95)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — P4HB

Entrez GeneID	5034
GeneBank Accession#	NM_000918.2
Protein Accession#	NP_000909.2
Gene Name	P4HB
Gene Alias	DSI, ERBA2L, GIT, P4Hbeta, PDI, PDIA1, PHDB, PO4DB, PO4HB, PROHB
Gene Description	prolyl 4-hydroxylase, beta polypeptide
Omim ID	176790
Gene Ontology	Hyperlink

Gene Summary	This gene encodes the beta subunit of prolyl 4-hydroxylase, a highly abundant multifunctional enzyme that belongs to the protein disulfide isomerase family. When present as a tetramer consisting of two alpha and two beta subunits, this enzyme is involved in hydroxylation of prolyl residues in procollagen. This enzyme is also a disulfide isomerase containing two thioredoxin domains that catalyze the formation, breakage and rearrangement of disulfide bonds. Other known functions include its ability to act as a chaperone that inhibits aggregation of misfolded proteins in a concentration-dependent manner, its ability to bind thyroid hormone, its role in both the influx and efflux of S-nitrosothiol-bound nitric oxide, and its function as a subunit of the microsomal triglyceride transfer protein complex. [provided by RefSeq]
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Other Designations

collagen prolyl 4-hydroxylase beta|glutathione-insulin transhydrogenase|procollagen-proline, 2-oxo glutarate 4-dioxygenase (proline 4-hydroxylase), beta polypeptide|prolyl 4-hydroxylase, beta subunit|protein disulfide isomerase family A, member 1|protein d

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)