

## Product datasheet for TP302275L

### P4HB (NM\_000918) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human prolyl 4-hydroxylase, beta polypeptide (P4HB), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC202275 protein sequence Red=Cloning site Green=Tags(s)

MLRRALLCLAVAALVRADAPEEEDHVLVLRKSNFAEALAAHKYLLVEFYAPWCGHCKALAPEYAKAAGKL  
KAEGSEIRLAKVDATEESDLAQYGVRYPTIKFFRNGDTASPKEYTAGREADDIVNWLKRTGPAATTL  
PDGAAAESLVESSEVAVIGFFKDVESDSAKQFLQAAEAIDDIPFGITSNSDVFVSKYQLDKDGVVLFKKFD  
EGRNNFEGEVTKENLLDFIKHNQLPLVIEFTEQTAPKIFGGEIKTHILLFLPKSVSDYDGLKLSNFKTAAE  
SFKGKILFIFIDSDHTDNQRILEFFGLKKEECPAVRLITLEEEMTKYKPESEELTAERITEFCHRFLGK  
IKPHLMSQELPEDWDKQPVKVLVGKNFEDVAFDEKKNVFEFYAPWCGHCKQLAPIWDKLGETYKDHENI  
VIKMDSTANEVEAVKVHSFPTLKFFPASADRTVIDYNGERTLDGFKKFLESQGGQDGAGDDDDLEDLEEA  
EEDMEEDDDQKAVKDEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	55.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP\\_000909](#)

Locus ID: 5034

UniProt ID: [P07237](#), [A0A024R8S5](#)

RefSeq Size: 2596

Cytogenetics: 17q25.3

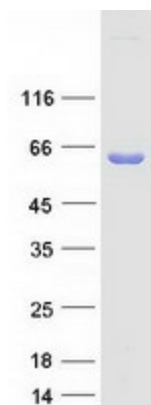
RefSeq ORF: 1524

Synonyms: CLCRP1; DSI; ERBA2L; GIT; P4Hbeta; PDI; PDIA1; PHDB; PO4DB; PO4HB; PROHB

**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, Jul 2008]

**Protein Families:** Druggable Genome

### Product images:



Coomassie blue staining of purified P4HB protein (Cat# [TP302275]). The protein was produced from HEK293T cells transfected with P4HB cDNA clone (Cat# [RC202275]) using MegaTran 2.0 (Cat# [TT210002]).