

Product datasheet for TP302275M

P4HB (NM_000918) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human prolyl 4-hydroxylase, beta polypeptide (P4HB), 100 µg

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.



[View online >](#)

RefSeq: [NP_000909](#)

Locus ID: 5034

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

RefSeq Size: 2596

Cytogenetics: 17q25.3

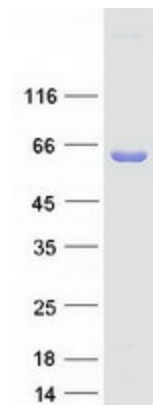
RefSeq ORF: 1524

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]).