

Product datasheet for **TP323831M**

P4HA1 (NM_000917) Human Recombinant Protein

Product data:

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| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human prolyl 4-hydroxylase, alpha polypeptide I (P4HA1), transcript variant 1, 100 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC223831 representing NM_000917 Red =Cloning site Green =Tags(s) |

MIWYILIIGILLPQSLAHPGFFTSIGQMTDLIHTKDLVTSCLKDYIKAEEDKLEQIKKWAEKLDRLTSTA
TKDPEGFVGHVPVNAFKLMKRLNTEWSELENLVLKDMSDGFISNLTIQRQYFPNDEDQVGAALKALLRLQDT
YNLDTDTISKGNLPGVKHKSFLTAEDCFELGKVAYTEADYYHTELWMEQALRQLDEGEISTIDKVSVDY
LSYAVYQQGDLDKALLLTKLLELDPEHQRANGNLKYFEYIMAKEKDVNKSASDDQSDQKTPKKGAV
DYLPERQKYEMLCRGEGIKMTPRRQKKLFCRYHDGNRNPKFILAPAKQEDEWDKPRIIRFHDIISDAEIE
IVKDLAKPRLRRATISNPITGDLETVHYRISKSAWLSGYENPVVSRINMRIQDLTGLDVSTAEELQVANY
GVGGQYEPHFDKDEPDAFKELGTGNRIATWLFYMSDVSAGGATVFPEVGASVWPKKGTAVFWYNLFA
SGEGDYSTRHAACPVLVGNKVVSNKWLHERGQEFRRPCTLSELE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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| Tag: | C-Myc/DDK |
| Predicted MW: | 59 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. |



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| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | NP_000908 |
| Locus ID: | 5033 |
| UniProt ID: | P13674 , Q5VSQ6 , C9JL12 |
| RefSeq Size: | 2752 |
| Cytogenetics: | 10q22.1 |
| RefSeq ORF: | 1602 |
| Synonyms: | P4HA |
| Summary: | This gene encodes a component of prolyl 4-hydroxylase, a key enzyme in collagen synthesis composed of two identical alpha subunits and two beta subunits. The encoded protein is one of several different types of alpha subunits and provides the major part of the catalytic site of the active enzyme. In collagen and related proteins, prolyl 4-hydroxylase catalyzes the formation of 4-hydroxyproline that is essential to the proper three-dimensional folding of newly synthesized procollagen chains. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008] |
| Protein Families: | Druggable Genome, P450 |
| Protein Pathways: | Arginine and proline metabolism, Metabolic pathways |

Product images:



Coomassie blue staining of purified P4HA1 protein (Cat# [TP323831]). The protein was produced from HEK293T cells transfected with P4HA1 cDNA clone (Cat# [RC223831]) using MegaTran 2.0 (Cat# [TT210002]).