

Product datasheet for TP323831L

OriGene Technologies, Inc.

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P4HA1 (NM 000917) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human prolyl 4-hydroxylase, alpha polypeptide I (P4HA1), transcript

variant 1, 1 mg

Species: Human
Expression Host: HEK293T

Expression cDNA Clone >RC223831 representing NM_000917 or AA Sequence: Red=Cloning site Green=Tags(s)

MIWYILIIGILLPQSLAHPGFFTSIGQMTDLIHTEKDLVTSLKDYIKAEEDKLEQIKKWAEKLDRLTSTA
TKDPEGFVGHPVNAFKLMKRLNTEWSELENLVLKDMSDGFISNLTIQRQYFPNDEDQVGAAKALLRLQDT
YNLDTDTISKGNLPGVKHKSFLTAEDCFELGKVAYTEADYYHTELWMEQALRQLDEGEISTIDKVSVLDY
LSYAVYQQGDLDKALLLTKKLLELDPEHQRANGNLKYFEYIMAKEKDVNKSASDDQSDQKTTPKKKGVAV
DYLPERQKYEMLCRGEGIKMTPRRQKKLFCRYHDGNRNPKFILAPAKQEDEWDKPRIIRFHDIISDAEIE
IVKDLAKPRLRRATISNPITGDLETVHYRISKSAWLSGYENPVVSRINMRIQDLTGLDVSTAEELQVANY
GVGGQYEPHFDFARKDEPDAFKELGTGNRIATWLFYMSDVSAGGATVFPEVGASVWPKKGTAVFWYNLFA

SGEGDYSTRHAACPVLVGNKWVSNKWLHERGQEFRRPCTLSELE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 59 kDa

Concentration: $>0.05 \mu g/\mu L$ 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: <u>P13674</u>, <u>Q5VSQ6</u>, <u>C9JL12</u>

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

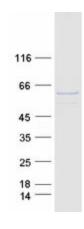
composed of two identical alpha subunits and two beta subunits. The encoded protein is one of several different types of alpha subunits and provides the major part of the catalytic site of the active enzyme. In collagen and related proteins, prolyl 4-hydroxylase catalyzes the formation of 4-hydroxyproline 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]).