

Product datasheet for **TP323831L**

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

MIWYILIIGILLPQSLAHPGFFTSIGQMTDLIHTKDLVTSCLKDYIKAEEDKLEQIKKWAEKLDRLTSTA
TKDPEGFVGHVPVNAFKLMKRLNTEWSELENLVLKDMSDGFISNLTIQRQYFPNDEDQVGAALKALLRLQDT
YNLDTDTISKGNLPGVKHKSFLTAEDCFELGKVAYTEADYYHTELWMEQALRQLDEGEISTIDKVSVDY
LSYAVYQQGDLDKALLLTKLLELDPEHQRANGNLKYFEYIMAKEKDVNKSASDDQSDQKTPKKGAV
DYLPERQKYEMLCRGEGIKMTPRRQKKLFCRYHDGNNRNPKIFILAPAKQEDEWDKPRIIRFHDIISDAEIE
IVKDLAKPRLRRATISNPITGDLETVHYRISKAWSLGYENPVVSRINMRIQDLTGLDVSTAEELQVANY
GVGGQYEPHFDKDEPDAFKELGTGNRIATWLFYMSDVSAGGATVFPEVGASVWPKKGTAVFWYNLFA
SGEGDYSTRHAACPVLVGNKWVSNKWLHERGQEFRRPCTLSELE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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]).