

Recombinant Human P4HA1

Cat. No. P4HA1-30543TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human P4HA1 with a N terminal proprietary tag; Predicted MWt 84.81 kDa including the tag.
Species	Human
Source	Wheat Germ
ProteinLength	534 amino acids
Description	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.
Molecular Weight	84.810kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.3% Glutathione

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MIWYILIIGILLPQSLAHPGFFTSIGQMTDLIHTEKDLVT SLKDYIKAEEDKLEQIKKWA EKLDRLTSTATKDPEGFVGH PVNAFKLMKRLNTEWSELENLVLKDMSDGFI SNLTIQ RQY FPNDEDQVGAAKALLRLQDTYNLDDTISKGNLPGVKHKS FLTAEDCFELGKV AYTEADYYHTELWMEQALRQLDEGEIS TIDKVSVDYLSYAVYQQGDLDKALLLTKK LLELDPEHQR ANGNLKYFEYIMAKEKDVNKSASDDQSDQKTPKKGAVAV DYLP RQKYEMLCRGEGIKMTPRRQKKLFCRYHDGNRNP K FILAPAKQEDEWDKPRIIRFH DIISDAEIEIVKDLAKPRL RRATISNPITGDLETVHYRISKSAWLSGYENPVVSRINMR I QDLTGLDVSTAEELQVANYGVGGQYEPHFD FARKDEPDA FKELGTGNRIATWLFY MSDVSAGGATVFPEVGASVWPKKG TAVFWYNLFASGEGDYSTRHAACPVLVGNK WWSNKWLHER GQEFRRPCTLSELE
Sequence Similarities	Belongs to the P4HA family.Contains 1 Fe2OG dioxygenase domain.Contains 1 TPR repeat.

GENE INFORMATION

Gene Name	P4HA1 prolyl 4-hydroxylase, alpha polypeptide I [Homo sapiens]
Official Symbol	P4HA1
Synonyms	P4HA1; prolyl 4-hydroxylase, alpha polypeptide I; P4HA, procollagen proline, 2 oxoglutarate 4 dioxygenase (proline 4 hydroxylase), alpha polypeptide I; prolyl 4-hydroxylase subunit alpha-1; C P4Halpha(I); collagen prolyl 4 hydroxylase alpha(I);
Gene ID	5033
mRNA Refseq	NM_000917

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Protein Refseq	NP_000908
MIM	176710
Uniprot ID	P13674
Chromosome Location	10q21.3-q23.1
Pathway	Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem;
Function	L-ascorbic acid binding; binding; iron ion binding; metal ion binding; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, 2-oxoglutarate as one donor, and incorporation of one atom each of oxygen into bo;

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