

Recombinant Full Length Human P4HA1 Protein

Cat. No. P4HA1-355HF **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	In Vitro Cell Free System
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.
Form	Liquid
Molecular Mass	84.810kDa inclusive of tags
AA Sequence	MIWYILIIGILLPQSLAHPGFFTSIGQMTDLIHTEKDLVT SLKDYIKAEEDKLEQIKKWA EKLDRLTSTATKDPEGFVGH PVNAFKLMKRLNTEWSELENLVLKDMSDGFI SNLTIQ RQY FPNDEDQVGAAKALLRLQDTYNLDTDTISKGNLPGVKHKS FLTAEDCFELGKV

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AYTEADYYHTELWMEQALRQLDEGEIS TIDKVSULDYLSYAVYQQGDLDKALLLTKK
 LLELDPEHQR ANGNLKYFEYIMAKEKDVNKSASDDQSDQKTTTPKKKGVAV DYLPE
 RQKYEMLCRGEGIKMTPRRQKKLFCRYHDGNRNP K FILAPAKQEDEWDKPRIIRFH
 DIISDAEIEIVKDLAKPRL RRATISNPITGDLETVHYRISKSAWLSGYENPVVSRINMR I
 QDLTGLDVSTAEELQVANYGVGGQYEPHFDFARKDEPDA FKELGTGNRIATWLFY
 MSDVSAGGATVFPEVGASVWPKKG TAVFWYNLFASGEGDYSTRHAACPVLVGNK
 WWSNKWLHER GQEFRRPCTLSELE

Purity Proprietary Purification

Storage Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

Storage Buffer pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.

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

Protein Refseq NP_000908

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MIM	176710
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UniProt ID	P13674
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