

Recombinant Human P4HA1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. P4HA1-3009H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	P4HA1 MS Standard C13 and N15-labeled recombinant protein (NP_001017962) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 Mass	61 kDa
AA Sequence	MIWYILIIGILLPQSLAHPGFFTSIGQMTDLIHTEKDLVTSCLKDYIKAEEDKLEQIKKWAE KLDRLTSTATKDPEGFVGHPVNAFKLMKRLNTEWSELENLVLKDMSDGFISNLTIQR QYFPNDEDQVGAAKALLRLQDTYNLDTDTISKGNLPGVKHKSFLTAEDCFELGKVAY TEADYYHTELWMEQALRQLDEGEISTIDKVSVDYLSYAVYQQGDLKALLTKKLE LDPEHQRANGNLKYFEYIMAKEKDVNKSASDDQSDQKTTPKKKGVAVDYLPERQKY

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EMLCRGEGIKMTPRRQKKLFCRYHDGNNRNPKEFILAPAKQEDEWDKPRIIRFHDIIISDA
EIEIVKDLAKPRLRRATISNPITGDLETVHYRISKSAWLSGYENPVVSRINMRIQDLTGL
DVSTAEELQVANYGVGGQYEPHFDFARKDEPDFAKELGTGNRIATWLFYMSDVSA
GGATVFPEVGASVWPKKGTAVFWYNLFASGEGDYSTRHAACPVLVGNKWWSNKKW
LHERGQEFRRPCTLSELETRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name P4HA1 prolyl 4-hydroxylase subunit alpha 1 [Homo sapiens (human)]

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); C-P4Halpha(I); collagen prolyl 4-hydroxylase alpha(I); procollagen-proline,2-oxoglutarate-4-dioxygenase subunit alpha-1; procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha polypeptide I; P4HA;

Gene ID 5033

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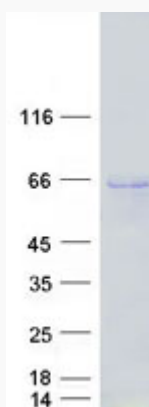
mRNA Refseq [NM_001017962](#)

Protein Refseq [NP_001017962](#)

MIM [176710](#)

UniProt ID [P13674](#)

SDS-PAGE



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