

Recombinant Human P4HA2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. P4HA2-1578H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	P4HA2 MS Standard C13 and N15-labeled recombinant protein (NP_001017973) 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	60.6 kDa
AA Sequence	MKLWVSALLMAWFGVLSCVQAEFFTSIGHMTDLIYAEKELVQSLKEYILVEEAKLSKI KSWANKMEALTSKSAADAEGYLAHPVNAYKLVKRLNTDWPALDLVLQDSAAGFIA NLSVQRQFFPTDEDEIGAALKMRLQDITYRLDPGTISRGEIPGTYQAMLSVDDCF GMGRSAYNEGDIYHTVLWMEQVLKQLDAGEEATTTKSQVLDYLSYAVFQLGDLHR ALELTRRLSLDPSHERAGGNLRYFEQLLEEEREKTLTNQTEAELATPEGIYERPVDY

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

LPERDVYESLCRGEGVKLTPTRRQKRLFCRYHHGNRAPQLLIAPFKEEDEWDSPHIV
 RYYDVMSDEEIERIKEIAKPKLARATVRDPKTGVLTVASYRVSKSSWLEEDDDPVVA
 RVNRRMQHITGLTVKTAELLQVANYGVGGQYEPHFDFSRRPFDSGLKTEGNRLATF
 LNYMSDVEAGGATVFPDLGAAIWPKKGTAVFWYNLLRSGEGDYRTRHAACPVLVG
 CKWVSNKWFHERGQEFLRPCGSTEVDTTRTRPLEQKLISEEDLAANDILDYKDDDDK
 V

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 P4HA2 prolyl 4-hydroxylase subunit alpha 2 [Homo sapiens (human)]

Official Symbol P4HA2

Synonyms P4HA2; prolyl 4-hydroxylase, alpha polypeptide II; procollagen proline, 2 oxoglutarate 4 dioxygenase (proline 4 hydroxylase), alpha polypeptide II; prolyl 4-hydroxylase subunit alpha-2; 4 PH alpha 2; C P4Halpha(II); collagen prolyl 4 hydroxylase alpha(II); 4-PH alpha 2; 4-PH alpha-2; C-P4Halpha(II); collagen prolyl 4-hydroxylase alpha(II); procollagen-proline,2-oxoglutarate-4-dioxygenase subunit alpha-2; procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha polypeptide II;

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Gene ID	8974
mRNA Refseq	NM_001017973
Protein Refseq	NP_001017973
MIM	600608
UniProt ID	O15460
SDS-PAGE	