

Product datasheet for PH323831

P4HA1 (NM_000917) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	P4HA1 MS Standard C13 and N15-labeled recombinant protein (NP_000908)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC223831
Predicted MW:	61.05 kDa
Protein Sequence:	>RC223831 representing NM_000917 Red=Cloning site Green=Tags(s)

MIWYILIIIGILLPQSLAHPGFFTSIGQMTDLIHTEKDLVTSKDYIKAEEKLEQIKKWAEKLDRLTSTA
TKDPEGFVGHVPVNAFKLMKRLNTEWSELENLVKDMSDGFISNLTIQRQYFPNDEDQVGAALKLLRLQDT
YNLDTDTISKGNLPGVKHKSFLEAEDCFELGKVAYTEADYYHTELWMEQALRQLDEGEISTIDKVSVDY
LSYAVYQQGDLKALLLTKLLELDPEHQRANGNLKYFEYIMAKEKDVNKSASDDQSDQKTTPKKGVAV
DYLPERQKYEMLCRGEIKMTPRRQKFLCRYHDGMRNPKFILAPAKQEDEWDKPRIIRFHDIISDAEIE
IVKDLAKPRLRRATISNPITGDLETVHYRISKSAWLSGYENPVVSRINMRIQDLTGLDVSTAEELQVANY
GVGGQYEPHDFARKDEPDAFKELGTGNRIATWLFYMSDV SAGGATVFPEVGASVWPKKGTAVFWYNLFA
SGEGDYSTRHAACPVLVGNKWSNKWLHERGQEFRRPCTLSELE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_000908</u>
RefSeq Size:	2752
RefSeq ORF:	1602



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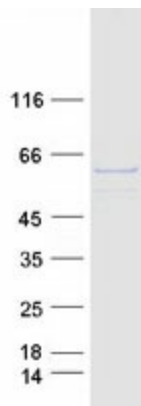
Synonyms: P4HA
Locus ID: 5033
UniProt ID: [P13674](#), [Q5VSO6](#), [C9JL12](#)
Cytogenetics: 10q22.1

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]).