

## Product datasheet for PH306055

### P4HA1 (NM\_001017962) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	P4HA1 MS Standard C13 and N15-labeled recombinant protein (NP_001017962)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC206055
Predicted MW:	61 kDa
Protein Sequence:	>RC206055 protein sequence Red=Cloning site Green=Tags(s)

MIWYILIIIGILLPQSLAHPGFFTSIGQMTDLIHTEKDLVTSKDYIKAEEKLEQIKKWAEKLDRLTSTA  
TKDPEGFVGHVPVNAFKLMKRLNTEWSELENLVKDMSDGFISNLTIQRQYFPNDEDQVGAALKLLRLQDT  
YNLDTDTISKGNLPGVKHKSFLEAEDCFELGKVAYTEADYYHTELWMEQALRQLDEGEISTIDKVSVDY  
LSYAVYQQGDLKALLLTKLLELDPEHQRANGNLKYFEYIMAKEKDVNKSASDDQSDQKTTPKKGVAV  
DYLPERQKYEMLCRGEIKMTPRRQKFLCRYHDGNRNPKFILAPAKQEDEWDKPRIIRFHDIIISDAEIE  
IVKDLAKPRLRRATISNPITGDLETVHYRISKSAWLSGYENPVVSRINMRIQDLTGLDVSTAEELQVANY  
GVGGQYEPHDFARKDEPDAFKELGTGNRIATWLFYMSDVSAGGATVFPEVGASVWPKKGTAVFWYNLFA  
SGEGDYSTRHAACPVLVGNKWVSNKWLHERGQEFRRPCTLSELE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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:	<a href="#">NP_001017962</a>
RefSeq Size:	2860
RefSeq ORF:	1602



[View online »](#)

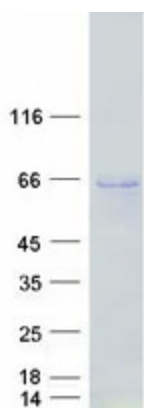
**Synonyms:** P4HA  
**Locus ID:** 5033  
**UniProt ID:** [P13674](#), [C9JL12](#)  
**Cytogenetics:** 10q22.1

**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# [TP306055]). The protein was produced from HEK293T cells transfected with P4HA1 cDNA clone (Cat# [RC206055]) using MegaTran 2.0 (Cat# [TT210002]).