

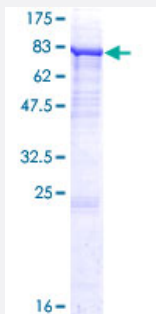
Full-Length

P4HA2 (Human) Recombinant Protein (P01)

Catalog # H00008974-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human P4HA2 full-length ORF (NP_001017973.1, 1 a.a. - 533 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MKLWVSALLMAWFGVLSCVQAEFFTSIGHMTDLIYAEKELVQSLKEYILVEEAKLSKIKSWANKME
ALTSKSAADAEGYLAHPVNAYKLVKRLNTDWPALDLVLQDSAAGFIANLSVQRQFFPTDEDEIG
AAKALMRLQDTYRLDPGTISRGELPGTKYQAMLSVDDCFGMGRSAYNEGDYYHTVLWMEQVLKQ
LDAGEEATTTKSQVLDYLSYAVFQLGDLHRALELTRLLSLDPSHERAGGNLRYFEQLLEEEREK
TLTNQTEAELATPEGIYERPVDYLPERDVYESLCRGEGVKLTPRRQKRLFCRYHHGNRAPQLLIAP
FKEEDEWDSPHIVRYDYVMSDEEIERIKEIAKPKLARATVRDPKTGVLTVASYRVSKSSWLEEDD
DPVVARVNRRMQHITGLTVKTAELLQVANYGVGGQYEPHFDfsRRPFDSGLKTEGNRLATFLNYM
SDVEAGGATVFPDLGAAMPKKGTAFFWYNLLRSGEGDYRTRHAACPVLVGCKWWSNKWFHER
GQEFLRPCGSTTEVD

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

87

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — P4HA2

Entrez GeneID[8974](#)**GeneBank Accession#**[NM_001017973.1](#)**Protein Accession#**[NP_001017973.1](#)**Gene Name**

P4HA2

Gene Alias

-

Gene Description

prolyl 4-hydroxylase, alpha polypeptide II

Omim ID[600608](#)**Gene Ontology**[Hyperlink](#)**Gene 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]

Other Designations

4-PH alpha 2[C-P4Halpha(II)]OTTHUMP00000065966|OTTHUMP00000065967|OTTHUMP00000065968|OTTHUMP00000065969|collagen prolyl 4-hydroxylase alpha(II)|procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha polypeptide II|prolyl 4-hydrox

Pathway

- [Arginine and proline metabolism](#)
- [Metabolic pathways](#)

Disease

- [Bronchiolitis](#)
- [Crohn Disease](#)
- [Genetic Predisposition to Disease](#)
- [Ovarian Neoplasms](#)
- [Respiratory Syncytial Virus Infections](#)