# Recombinant Human Prolyl 4-hydroxylase subunit alpha-2 (P4HA2)

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| **Product Code** | CSB-BP017340HU |
| **Storage** | Store at -20°C, for extended storage, conserve at -20°C or -80°C. |
| **Uniprot No.** | O15460 |
| **Product Type** | Recombinant Protein |
| **Immunogen Species** | Homo sapiens (Human) |
| **Purity** | >85% (SDS-PAGE) |
| **Sequence** | EFFTSIGHM TDLIYAEKEL VQSLKEYILV EEAKLSKIKS WANKMEALTS KSAADAEGYL AHPVNAYKLV KRLNTDWPAL EDLVLQDSAA GFIANLSVQR QFFPTDEDEI GAAKALMRLQ DTYRLDPGTI SRGELPGTKY QAMLSVDDCF GMGRSAYNEG DYYHTVLWME QVLKQLDAGE EATTTKSQVL DYLSYAVFQL GDLHRALELT RRLLSLDPSH ERAGGNLRYF EQLLEEEREK TLTNQTEAEL ATPEGIYERP VDYLPERDVY ESLCRGEGVK LTPRRQKRLF CRYHHGNRAP QLLIAPFKEE DEWDSPHIVR YYDVMSDEEI ERIKEIAKPK LARATVRDPK TGVLTVASYR VSKSSWLEED DDPVVARVNR RMQHITGLTV KTAELLQVAN YGVGGQYEPH FDFSRNDERD TFKHLGTGNR VATFLNYMSD VEAGGATVFP DLGAAIWPKK GTAVFWYNLL RSGEGDYRTR HAACPVLVGC KWVSNKWFHE RGQEFLRPCG STEVD |
| **Source** | Baculovirus |
| **Target Names** | P4HA2 |
| **Protein Names** | Recommended name: Prolyl 4-hydroxylase subunit alpha-2 Short name= 4-PH alpha-2 EC= 1.14.11.2 Alternative name(s): Procollagen-proline,2-oxoglutarate-4-dioxygenase subunit alpha-2 |
| **Expression Region** | 22-535 |
| **Notes** | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |
| **Tag Info** | Tag type will be determined during the manufacturing process. |
| **Protein Length** | Full Length of Mature Protein |
| **Target Details** | 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. |
| **Reconstitution** | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a |

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| | concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference. |
| **Shelf Life** | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C. |