Recombinant Human Prolyl 4-hydroxylase subunit alpha-1 (P4HA1)

Product Code	CSB-YP017339HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P13674
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	HPG FFTSIGQMTD LIHTEKDLVT SLKDYIKAEE DKLEQIKKWA EKLDRLTSTA TKDPEGFVGH PVNAFKLMKR LNTEWSELEN LVLKDMSDGF ISNLTIQRQY FPNDEDQVGA AKALLRLQDT YNLDTDTISK GNLPGVKHKS FLTAEDCFEL GKVAYTEADY YHTELWMEQA LRQLDEGEIS TIDKVSVLDY LSYAVYQQGD LDKALLLTKK LLELDPEHQR ANGNLKYFEY IMAKEKDVNK SASDDQSDQK TTPKKKGVAV DYLPERQKYE MLCRGEGIKM TPRRQKKLFC RYHDGNRNPK FILAPAKQED EWDKPRIIRF HDIISDAEIE IVKDLAKPRL RRATISNPIT GDLETVHYRI SKSAWLSGYE NPVVSRINMR IQDLTGLDVS TAEELQVANY GVGGQYEPHF DFARKDEPDA FKELGTGNRI ATWLFYMSDV SAGGATVFPE VGASVWPKKG TAVFWYNLFA SGEGDYSTRH AACPVLVGNK WVSNKWLHER GQEFRRPCTL SELE
Source	Yeast
Target Names	P4HA1
Protein Names	Recommended name: Prolyl 4-hydroxylase subunit alpha-1 Short name= 4-PH alpha-1 EC= 1.14.11.2 Alternative name(s): Procollagen-proline,2-oxoglutarate-4-dioxygenase subunit alpha-1
Expression Region	18-534
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

	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. 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.