



Recombinant Human Collagen alpha-2 (VIII) chain (COL8A2)

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| Product Code | CSB-EP005756HU-B |
| Storage | Store at -20°C, for extended storage, conserve at -20°C or -80°C. |
| Uniprot No. | P25067 |
| Product Type | Recombinant Protein |
| Immunogen Species | Homo sapiens (Human) |
| Purity | >85% (SDS-PAGE) |
| Sequence | GG GAGGAAGYAP VKYIQPMQKG PVGPPFREGK GQYLEMPLPL LPMDLKGEPPG PPGKPGPRGP PGPPGFPGKP GMGKPGHLHGQ PGPAGPPGFS RMGKAGPPGL PGKVGPPGQP GLRGEPGIRG DQQLRGPPGP PGLPGPSGIT IPGKPGAQGV PGPPGFQGE GPQGEPPPG DRGLKGDNGV GQPGLPGAPG QGGAPPPGL PGPAGLGKPG LDGLPGAPGD KGESGPPGVP GPRGEPGAVG PKGPPGVDGV GVPGAAGLPG PQGSPGAKGE PGTRGPPGLI GPTGYGMPGL PGPKGDRGPA GVPGLLGDRG EPGEDGEPE QGPQGLGGPP GLPGSAGLPG RRGPPGPKGE AGPGGPPGVP GIRGDQGPSG LAGKPGVPGE RGLPGAHGPP GPTGPKGEPG FTGRPGGPGV AGALGQKGDLD GLPGQPGLRG PSGIPGLQGP AGPIGPQGLP GLKGEPGLPG PPGEGRAGEP GTAGPTGPPG VPGSPGITP PGPPGPPGPP GAPGAFDETG IAGLHLPNGG VEGAVLGKGG KPQFGLGELS AHATPAFTAV LTSPFPASGM PVKFDRTLYN GHSGYNPATG IFTCPVGGVY YFAYHVHVKG TNVWVALYKN NVPATYTYDE YKKG YLDQAS GGAVLQLRPN DQVWVQMPSD QANGLYSTEY IHSSFSGFLL CPT |
| Source | E.coli |
| Target Names | COL8A2 |
| Protein Names | Recommended name: Collagen alpha-2(VIII) chain Alternative name(s): Endothelial collagen |
| Expression Region | 29-703 |
| 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 the alpha 2 chain of type VIII collagen. The protein is a major component of the basement membrane of the corneal endothelium and forms homo- or heterotrimers with alpha 1 (VIII) type collagens. Defects in this gene are associated with Fuchs endothelial corneal dystrophy and posterior polymorphous corneal dystrophy type 2. |
| 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.