



Recombinant Human Cartilage oligomeric matrix protein (COMP)

Product Code	CSB-EP005778HU-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P49747
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	<p> QGQSPLGSDL GPQMLRELQE TNAALQDVRE LLRQQVREIT FLKNTVMECD ACGMQQSVRT GLPSVRPLLH CAPGFCFPGV ACIQTESGAR CGPCPAGFTG NGSHCTDVNE CNAHPCFPRV RCINTSPGFR CEACPPGYSG PTHQGVGLAF AKANKQVCTD INECETGQHN CVPNSVCINT RGSFQCGPCQ PGFVGDQASG CQRRARFCP DGSPSECHEH ADCVLERDGS RSCVCAVGWA GNGILCGRDT DLDGFPDEKL RCPERQCRKD NCVTVPNGSQ EDVDRDGIGD ACDPDADGDG VPNEKDNCL VRNPDQRNTD EDKWGDACDN CRSQKNDDQK DTDQDGRGDA CDDDIDGDRI RNQADNCPRV PNSDQKSDG DGIGDACDNC PQKSNPDQAD VDHDFVGDAC DSDQDQDGDG HQDSRDNCPT VPNSAQEDSD HDGQGACD DDDNDGVPDS RDNCRLVPNP GQEDADRGV GDVCQDDFDA DKVVDKIDVC PENAETLTD FRAFQTVLD PEGDAQIDPN WVLNQGRI VQTMNSDPGL AVGYTAFNGV DFEGTFHVNT VTDDYAGFI FGYQDSSSFY VVMWKQMEQT YWQANPFRAV AEPGIQLKAV KSSTGPGEQL RNALWHTGDT ESQVRLWLD PRNVGWKDKK SYRWFLQHRP QVGYIRVRFY EGPELVADSN VVLDTTMRGG RLGVFCFSQE NIIWANLRYR CNDTIPEDYE THQLRQA </p>
Source	E.coli
Target Names	COMP
Protein Names	Recommended name: Cartilage oligomeric matrix protein Short name= COMP Alternative name(s): Thrombospondin-5 Short name= TSP5
Expression Region	21-757
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 protein is a noncollagenous extracellular matrix (ECM) protein. It consists of five identical glycoprotein subunits, each with EGF-like and calcium-binding (thrombospondin-like) domains. Oligomerization results from formation of a five-stranded coiled coil and disulfides. Binding to other ECM proteins such as collagen appears to depend on divalent cations. Mutations can cause the osteochondrodysplasias pseudoachondroplasia (PSACH) and multiple



epiphyseal dysplasia (MED).

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.