



# Recombinant Human Cartilage oligomeric matrix protein (COMP)

<b>Product Code</b>	CSB-MP005778HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P49747
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	<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 GQEDADRDRGV 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>
<b>Source</b>	Mammalian cell
<b>Target Names</b>	COMP
<b>Protein Names</b>	Recommended name: Cartilage oligomeric matrix protein Short name= COMP Alternative name(s): Thrombospondin-5 Short name= TSP5
<b>Expression Region</b>	21-757
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	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).

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**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.

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**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.