

Recombinant Human COMP, His-tagged

Cat. No. COMP-3658H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Total 783 AA. MW: 85.75 kDa (calculated). C-Terminal His-tag+myc-epitope.
Species	Human
Source	CHO
Description	Cartilage oligomeric matrix protein is a protein that in humans is encoded by the COMP gene. The protein encoded by this gene is a noncollagenous extracellular matrix protein. It consists of five identical glycoprotein subunits. Oligomerization results from formation of a five-stranded coiled coil and disulfide bonds. COMP is a marker of cartilage turnover.
Form	Frozen in production medium.
Research topic	Bone and cartilage metabolism
Reconstitution	Defrost at ambient temperature.
Applications	Drug discovery; In vitro diagnostic
Quality Control Test	SDS-PAGE; ELISA test
Sequences of amino acids	AAQPARRAVR SFCVLLLT LA ALGASGQGQS PLGSDLGPQM LRELQETNAA LQDVRELLRQ QVREITFLKN TVMECDACGM QQSVRTGLPS VRPLLHCAPG FCFPGVACIQ TEGARCGPC PAGFTGNGSH CTDVNECNAH PCFPRVRCIN

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TSPGFRCEAC PPGYSGPTHQ GVGLAFKAN KQVCTDINEC ETGQHNCVPN
 SVCINTRGSF QCGPCQPGFV GDQASGCQRR AQRFCPDGSP SECHEHADCV
 LERDGSRSCV CAVGWAGNGI LCGRDSDLG FPDEKLRCPE RQCRKDNVCV
 VPNSGQEDVD RDGIGDACDP DADGDGVPNE KDNCLVRNP DQRNTDEDKW
 GDACDNCRSQ KNDDQKDTDQ DGRGDACDDD IDGDRIRNQA DNCPRVPNSD
 QKDSGDGIG DACDNCPQKS NPDQADVHD FVGDACSDQ DQDGDGHQDS
 RDNCPTVPNS AQEDSDHDGQ GDACDDDDDN DGVPDSRDNC RLVNPGQED
 ADRDGVGDVC QDDFDADKVV DKIDVCPENA EVTLTDFRAF QTVVLDPEGD
 AQIDPNWVVL NQGREIVQTM NSDPGLAVGY TAFNGVDFEG TFHVNTVTDD
 DYAGFIFGYQ DSSSFYVVMW KQMEQTYWQA NPFRAVAEPG IQLKAVKSST
 GPGEQLRNAL WHTGDTESQV RLLWKDPRNV GWKDKKSYRW FLQHRPQVG
 Y IRVRFYEGPE LVADSNVLD TMRGGRLGV FCFSQENIHW ANLRYRCNDT
 IPEDYETARG GPEQKLISEE DLNSAVDHHH HHH

Storage Store frozen at -20°C. Stable until expiry date.

Pathways ECM-receptor interaction; Focal Adhesion; Focal adhesion; Malaria; Phagosome; TGF-beta signaling pathway

GENE INFORMATION

Gene Name COMP cartilage oligomeric matrix protein [Homo sapiens]

Official Symbol COMP

Synonyms COMP; cartilage oligomeric matrix protein; MED; EDM1; EPD1; PSACH; THBS5; MGC131819; MGC149768; cartilage oligomeric matrix protein; TSP5; thrombospondin-5; pseudoachondroplasia (epiphyseal dysplasia 1, multiple); cartilage oligomeric matrix protein(pseudoachondroplasia, epiphyseal dysplasia 1, multiple); Cartilage oligomeric matrix protein; Thrombospondin-5

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Gene ID	1311
mRNA Refseq	NM_000095
Protein Refseq	NP_000086
MIM	600310
UniProt ID	P49747
Chromosome Location	19p13.1
Function	calcium ion binding; collagen binding; extracellular matrix structural constituent; heparan sulfate proteoglycan binding; heparin binding; protein binding
ProteinCOMP PDB 1fbm	