

## 32-3574: COMP HEK Recombinant Protein

**Alternative Name :** Cartilage Oligomeric Matrix Protein (pseudoachondroplasia epiphyseal dysplasia 1 multiple),MED,THBS5,TSP5,EDM1,PSACH,EPD1,Thrombospondin-5.

### Description

Source : HEK293

COMP HEK Protein is a 82.4 kDa protein containing 750 aa fused to a 13 aa N-Terminal FLAG-tag.

COMP is a non-collagenous glycoprotein and belongs to the thrombospondin family of extracellular proteins. COMP is a calcium-binding protein of high molecular weight (>500kDa) found in the extracellular matrix of articular, nasal and tracheal cartilage. COMP is not only cartilage-derived but is common in other tissues, such as synovium and tendon. Intact COMP is pentameric, with five equal subunits and the carboxy-terminal globular domain of native COMP binds to collagens I, II, and IX. COMP molecules are vital for conserving the properties and integrity of collagen network. Moreover COMP has a storage and delivery function for hydrophobic cellsignaling molecules such as vitamin D. Mutations of the COMP gene cause Pseudoachondroplasia and some forms of multiple epiphyseal dysplasia which implicates that it is vital that COMP develops and functions normally.

### Product Info

**Amount :** 10 µg

**Purification :** of the protein.

**Content :** COMP HEK Human was filtered (0.4µm) and lyophilized from 0.5 mg/ml supplied in 20mM TRIS and 50mM NaCl, pH 7.5

**Storage condition :** Store lyophilized COMP HEK Human at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted COMP HEK can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.

**Amino Acid :** HVVDYKDDDDK PAGQGQSPLG SDLGPQMLRE LQETNAALQD VRELLRQQVR EITFLKNTVM ECDACGMQQS VRTGLPSVRP LLHCAPGFCF PGVACIQTES GARGGPCPAG FTGNGSHCTD VNECNAHPCF PRVRCINTSP GFRCEACPPG YSGPTHQGVG LAFKANKQV CTDINECETG QHNCVPNSVC INTRGSFQCG PCQPGFVGDD ASGCQRRAR FCPDGPSEC HEHADCVLER DGSRSVCVAV GWAGNGILCG RDTDLGDFPD EKLRCPERQC RKDNCVTVPN SGQEDVDRDG IGDACDPDAD GDGVPNEKDN CPLVRNPQDR NTDEDKWGDA CDNCRSQKND DQKDTDQDGR GDACDDDDIDG DRIRNQADNC PRVPNSDQKD SDGDGIGDAC DNCPQKSNPD QADVHDHDFVG DACDSDQDQD GDGHQDSRDN CPTVPNSAQE DSDHDGQGDA CDDDDNDNGV PDSRDNCRLV PNPQGQEDADR DGVGDVCQDD FDADKVVDKI DVCPENAEVT LTDFRAFQTV VLDPEGDAQI DPNWVVLNQG REIVQTMNSD PGLAVGYTAF NGVDFEGTFH VNTVTDDDYA GFIFGYQDSS SFYVVMWKQM EQTYWQANPF RAVAEPGIQL KAVKSSTGPG EQLRNALWHT GDTESQVRLW WKDPRNVGWK DKKSYPWFLQ HRPQVGYIRV RFYEGPELVA DSNVVLDTTM RGGRLGVFCF SQENIIWANL RYRCNDTIPE DYETHQLRQA

### Application Note

It is recommended to add deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it on cell culture.

