

# Human CellExp™ COMP/TSP5, human recombinant

**CATALOG #:** 7452-10 10 µg  
7452-50 50 µg

**ALTERNATE NAMES:** COMP, TSP5, EDM1, EPD1, MED, PSACH, THBS5.

**SOURCE:** HEK 293 cells (Gln 21 – Ala 757)

**PURITY:** ≥ 95% by SDS-PAGE gel

**MOL. WEIGHT:** This protein fused with 6xHis tag at the C-terminus, has a calculated MW of 82 kDa. The predicted N-terminus is Gln 21. DTT-reduced Protein migrates as 110-130 kDa due to glycosylation.

**ENDOTOXIN LEVEL:** <1 EU/µg by LAL method

**FORM:** Lyophilized

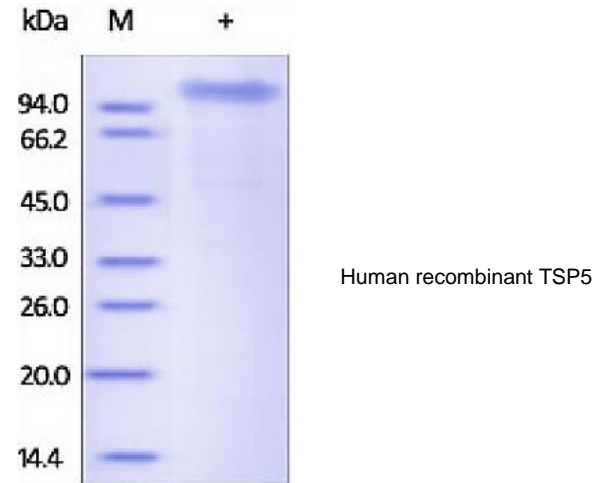
**FORMULATION:** Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM NaCl, pH 7.5. Normally Mannitol or Trehalose is added as protectants before lyophilization.

**STORAGE CONDITIONS:** Store at -20°C. After reconstitution, aliquot and store at -20°C and use within 3 months. Avoid repeated freezing and thawing cycles.

**RECONSTITUTION:** Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

**DESCRIPTION:** Cartilage oligomeric matrix protein (COMP) also known as Thrombospondin-5 (TSP5), EDM1, EPD1, MED, PSACH, THBS5, which belongs to the thrombospondin family. COMP / TSP5 contain 4 EGF-like domains, 1 TSP C-terminal (TSPC) domain, 8 TSP type-3 repeats. Abundantly expressed in the chondrocyte extracellular matrix, and is also found in bone, tendon, ligament and synovium and blood vessels. COMP may play a role in the structural integrity of cartilage via its interaction with other extracellular matrix proteins such as the collagens and fibronectin. COMP can mediate the interaction of chondrocytes with the cartilage extracellular matrix through interaction with cell surface integrin receptors. Thrombospondin-5 could play a role in the

**BIOLOGICAL ACTIVITY:** Measured by its ability to induce adhesion of ATDC5 mouse chondrogenic cells, when rhCOMP / Thrombospondin-5 immobilized at 1 µg/well. More than 45% of ATDC-5 cell adhesion will be induced.



#### RELATED PRODUCTS:

- Thrombospondin, human recombinant (**Cat. No. 4805-10, -50, -1000**)
- Thrombospondin, human (**Cat. No. 4806-25**)
- TSP1 Antibody (**Cat. No. 3283-100**)

**FOR RESEARCH USE ONLY! Not to be used in humans.**