10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Human CellExp COMP/TSP5, human recombinant protein

COMP, TSP5, EDM1, EPD1, MED, PSACH, THBS5.
Catalog # PBV11073r

Specification

Human CellExp COMP/TSP5, human recombinant protein - Product info

Primary Accession	P49747
Calculated MW	**This protein fused with 6×His 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. KDa**

Human CellExp COMP/TSP5, human recombinant protein - Additional Info

Gene ID	**1311**
Gene Symbol	**COMP**

Other Names
COMP, TSP5, EDM1, EPD1, MED, PSACH, THBS5.

Gene Source	**Human**
Source	**HEK293 cells**
Assay&Purity	**SDS-PAGE; ≥95%**
Assay2&Purity2	**N/A;**
Recombinant	**Yes**
Results	**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.**

Target/Specificity
COMP/TSP5

Application Notes
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.

Format
Lyophilized

Storage
-20°C; 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.

Human CellExp COMP/TSP5, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Human CellExp COMP/TSP5, human recombinant protein - Images

Human CellExp COMP/TSP5, human recombinant protein - Background

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 pathogenesis of osteoarthritis. COMP is a marker of cartilage turnover.

Human CellExp COMP/TSP5, human recombinant protein - References

Newton G.,et al.Genomics 24:435-439(1994).
Hashimoto Y.,et al.Submitted (JUN-2002) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Grimwood J.,et al.Nature 428:529-535(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.