

Datasheet for ABIN2180897

COMP Protein (AA 21-757) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	100 µg
Target:	COMP
Protein Characteristics:	AA 21-757
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This COMP protein is labelled with His tag.

Product Details

Sequence:	AA 21-757
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 82 kDa. The protein migrates as 110-130 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>88 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	COMP
Alternative Name:	COMP (COMP Products)

Target Details

Background: Cartilage oligomeric matrix protein (COMP) is also known as Thrombospondin-5 (TSP5), EDM1, EPD1, MED, PSACH, THBS5, which belongs to the thrombospondin family. COMP / TSP5 contains 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.

Molecular Weight: 81.9 kDa

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

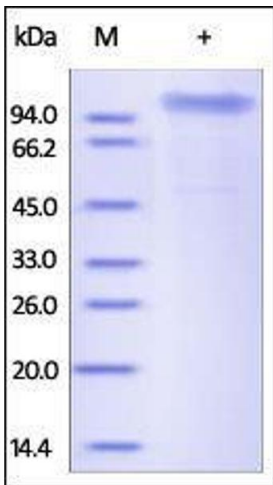
Buffer: 50 mM Tris, 150 mM NaCl, pH 7.5

Handling Advice: Please avoid repeated freeze-thaw cycles.

Storage: -20 °C

Storage Comment: No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C), After reconstitution under sterile conditions for 3 months (-70 °C).

Images



SDS-PAGE

Image 1. Human COMP, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 88%.