

## Datasheet for ABIN7317991 **COMP Protein (His tag)**

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### Overview

Quantity:	100 µg
Target:	COMP
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This COMP protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human COMP Protein (His Tag)(Active)
Sequence:	Met 1-Ala 757
Characteristics:	A DNA sequence encoding the human COMP (NP_000086.2) precursor (Met 1-Ala 757) was expressed with a C-terminal polyhistidine tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to induce adhesion of ATDC5 mouse chondrogenic cells. When cells are added to coated plates (5 µg/ml, 100 µl/well), approximately 40% will adhere specifically after 60 minutes at 37 °C.

### Target Details

Target:	COMP
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## Target Details

Alternative Name:	COMP ( <a href="#">COMP Products</a> )
Background:	<p>Background: Cartilage Oligomeric Matrix Protein (COMP), also referred to as Thrombospondin-5, is a non-collagenous extracellular matrix (ECM) protein and belongs to the subgroup B of the thrombospondin protein family. This protein is expressed primarily in cartilage, ligament, and tendon, and binds to other ECM proteins such as collagen I, II and IX with high affinities depending on the divalent cations Zn<sup>2+</sup> or Ni<sup>2+</sup>. COMP is a secreted glycoprotein that is important for growth plate organization and function. It is suggested to play a role in cell growth and development, and recent studies have revealed the possible mechanism that it protects cells against death by elevating members of the IAP (inhibitor of apoptosis protein) family of survival proteins. Mutations in COMP cause two skeletal dysplasias, pseudoachondroplasia (PSACH) and multiple epiphyseal dysplasia (EDM1), and up-regulated expression of COMP are observed in rheumatoid arthritis and certain carcinomas.</p> <p>Synonym: EDM1,EPD1,MED,PSACH,THBS5</p>
Molecular Weight:	82.4 kDa
NCBI Accession:	<a href="#">NP_000086</a>

## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at &lt; -20°C for 3 months.</p>