

COMP recombinant protein

Recombinant Human COMP Protein (His tag)

CATALOG #
AAA22098

HOST
HEK293 Cells

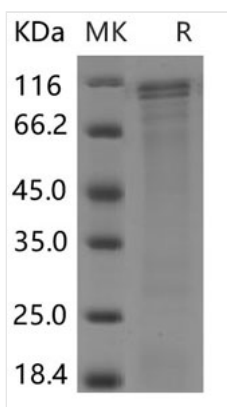
PRODUCT SYNONYMS

COMP; Recombinant Human COMP Protein (His tag); EDM1; EPD1; MED; MGC131819; MGC149768; PSACH; THBS5; COMP recombinant protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	83.8% as determined by reducing SDS-PAGE.
Form/Format	Supplied as sterile PBS, pH 7.4
Sequence	Met1-Ala75 7
Sequence Length	757
Application Notes	The mature form of human COMP consists of 748 amino acids after removal of the signal peptide and predicts a molecular mass of 82.4 kDa. As a result of glycosylation, the apparent molecular mass of rhCOMP is approximately 120-130 kDa in SDS-PAGE under reducing conditions.
Predicted N Terminal	Gln 21
Expression Host	HEK293 Cells.
Protein Construction	A DNA sequence encoding the human COMP (NP_000086.2) precursor (Met 1-Ala 757) was expressed with a C-terminal polyhistidine tag.
AP_Mol_Mass	120-130 kDa
Tag	C-his
Endotoxin	< 1.0 EU per µg as determined by the LAL method.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -70°C .Store it under sterile conditions at -20° to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for COMP recombinant protein	Cartilage Oligomeric Matrix Protein (COMP), also referred to as Thrombospondin-5, is a non-collagenous extracellularmatrix (ECM) protein and belongs to the subgroup B of the thrombospondin protein family. This protein is expressedprimarily in cartilage, ligament, and tendon, and binds to other ECM proteins such as collagen I, II and IX with highaffinities depending on the divalent cations Zn2+ or Ni2+. COMP is a secreted glycoprotein that is important for growthplate organization and function. It is suggested to play a role in cell growth and development, and recent studies haverevealed the possible mechanism that it protects cells against death by elevating members of the IAP (inhibitor ofapoptosis 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	40217843
NCBI GeneID	1311
NCBI Accession #	NP_000086.2
NCBI GenBank Nucleotide #	NM_000095.2
UniProt Accession #	P49747; O14592; Q16388; Q16389; Q2NL86; Q8N4T2; B4DKJ3
Molecular Weight	82.4 kDa
NCBI Official Full Name	cartilage oligomeric matrix protein
NCBI Official Synonym Full Names	cartilage oligomeric matrix protein
NCBI Official Symbol	COMP
NCBI Official Synonym Symbols	MED; EDM1; EPD1; TSP5; PSACH; THBS5
NCBI Protein Information	cartilage oligomeric matrix protein
UniProt Protein Name	Cartilage oligomeric matrix protein
UniProt Gene Name	COMP
UniProt Synonym Gene Names	COMP; TSP5

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/comp-recombinant-protein-hek293/22098>