Full-Length

COMP (Human) Recombinant Protein (P01)

Catalog # H00001311-P01 Size 50 ug

Specification

Product Description	Human COMP full-length ORF (BAC11031.1, 1 a.a. - 130 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MVPDTACVLLLTLAALGASGQGQSPLGSDLGPQMLRELQETNAALQDVRELLRQQVREITFLKNT VMECDACGMQQSVRTGLPSVRPLLHCAPGVPLRGLPAGVQRPHPPGRGAGFRQGQQAGLHGH QRV
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	40.2
Interspecies Antigen Sequence	Mouse (76)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — COMP

Entrez GeneID	1311
GeneBank Accession#	AK074508.1
Protein Accession#	BAC11031.1
Gene Name	COMP
Gene Alias	EDM1, EPD1, MED, MGC131819, MGC149768, PSACH, THBS5
Gene Description	cartilage oligomeric matrix protein
Omim ID	132400 177170 600310
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a noncollagenous extracellular matrix (ECM) protein. It consists of five identical glycoprotein subunits, each with EGF-like and calcium-binding (thrombospondin-like) domains. Oligomerization results from formation of a five-stranded coiled coil and disulfides. Binding to other ECM proteins such as collagen appears to depend on divalent cations. Mutations can cause the osteochondrodysplasias pseudochondroplasia (PSACH) and multiple epiphyseal dysplasia (MED). [provided by RefSeq
Other Designations	cartilage oligomeric matrix protein (pseudoachondroplasia, epiphyseal dysplasia 1, multiple)|cartilage oligomeric matrix protein(pseudoachondroplasia, epiphyseal dysplasia 1, multiple)|pseudoachondroplasia (epiphyseal dysplasia 1, multiple)|thrombospondin

Pathway

- ECM-receptor interaction
- Focal adhesion
- TGF-beta signaling pathway

Disease

- Alzheimer disease
- Cardiovascular Diseases
- Diabetes Complications

- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Metabolic Syndrome X
- Neoplasms
- Osteoarthritis
- Osteochondrodysplasias
- Osteoporosis