

Rat Cartilage Oligomeric Matrix Protein (COMP) ELISA Kit | COMP elisa kit

Rat Cartilage Oligomeric Matrix Protein (COMP) Mini Samples ELISA Kit

CATALOG #
AAA147389

REACTIVITY
Rat

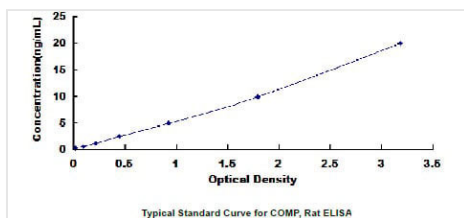
PRODUCT SYNONYMS

Cartilage Oligomeric Matrix Protein (COMP); Rat Cartilage Oligomeric Matrix Protein (COMP) Mini Samples ELISA Kit; MED; EDM1; EPD1; PSACH; THBS5; TSP-5; Pseudoachondroplasia; Epiphyseal Dysplasia 1; Multiple; Thrombospondin 5; COMP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of COMP. No significant cross-reactivity or interference between COMP and analogues was observed.
Sequence Length	755
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	0.114ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level COMP were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level COMP were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for COMP elisa kit

Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of COMP in mouse serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.

Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to COMP. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to COMP. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain COMP, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of COMP in the samples is then determined by comparing the O.D. of the samples to the standard curve.

Product Categories/Family for COMP
elisa kit

Metabolic pathway; Bone metabolism

NCBI AND UNIPROT INFORMATION

NCBI GI #	6978679
NCBI GeneID	25304
NCBI Accession #	NP_036966.1
NCBI GenBank Nucleotide #	NM_012834.1
UniProt Accession #	P35444
Molecular Weight	82,664 Da
NCBI Official Full Name	cartilage oligomeric matrix protein
NCBI Official Synonym Full Names	cartilage oligomeric matrix protein
NCBI Official Symbol	Comp
NCBI Protein Information	cartilage oligomeric matrix protein
UniProt Protein Name	Cartilage oligomeric matrix protein
UniProt Gene Name	Comp
UniProt Synonym Gene Names	COMP

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.

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Online datasheet: <https://www.aaabiotech.com/rat-elisa-kits/cartilage-oligomeric-matrix-protein-comp/147389>