ARG81478
Human COMP ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81478-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81478-002	Standard	2 X 10 ng/vial	4°C
ARG81478-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81478-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81478-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81478-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81478-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81478-008	25X Wash buffer	20 ml	4°C
ARG81478-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81478-010	STOP solution	10 ml (Ready to use)	4°C
ARG81478-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81478 Human COMP ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human COMP in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	COMP
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	78 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	156 - 10000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 5.4% Inter-Assay CV: 5.8%
Alternate Names	MED; TSP5; Thrombospondin-5; COMP; THBS5; EDM1; PSACH; EPD1; Cartilage oligomeric matrix protein

Application Instructions

Assay Time	~ 5 hours

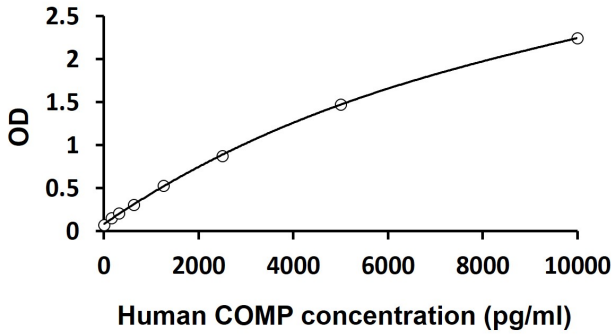
Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	COMP
Gene Full Name	cartilage oligomeric matrix protein
Background	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, Jul 2008]
Function	May play a role in the structural integrity of cartilage via its interaction with other extracellular matrix proteins such as the collagens and fibronectin. Can mediate the interaction of chondrocytes with the cartilage extracellular matrix through interaction with cell surface integrin receptors. Could play a role in the pathogenesis of osteoarthritis. Potent suppressor of apoptosis in both primary chondrocytes and transformed cells. Suppresses apoptosis by blocking the activation of caspase-3 and by inducing the IAP family of survival proteins (BIRC3, BIRC2, BIRC5 and XIAP). Essential for maintaining a vascular smooth muscle cells (VSMCs) contractile/differentiated phenotype under physiological and pathological stimuli. Maintains this phenotype of VSMCs by interacting with ITGA7 (By similarity). [UniProt]
Highlight	Related products: COMP antibodies; COMP ELISA Kits; COMP Duos / Panels; Related news: Detecting MMPs and their non-ECM substrates New ELISA data calculation tool: Simplify the ELISA analysis by GainData

Images



ARG81478 Human COMP ELISA Kit standard curve image

ARG81478 Human COMP ELISA Kit results of a typical standard run with optical density reading at 450 nm.