

ARG81477 Human Aggrecan ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81477-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81477-002	Standard	2 X 100 ng/vial	4°C
ARG81477-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81477-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81477-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81477-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81477-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81477-008	25X Wash buffer	20 ml	4°C
ARG81477-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81477-010	STOP solution	10 ml (Ready to use)	4°C
ARG81477-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81477 Human Aggrecan ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Aggrecan in serum, urine and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	ACAN / Aggrecan
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	0.78 ng/ml
Sample Type	Serum, urine and cell culture supernatants.
Standard Range	1.56 - 100 ng/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 5.8% Inter-Assay CV: 6.4%
Alternate Names	AGC1; SEDK; AGCAN; CSPG1; MSK16; CSPGCP; SSOAOD

Application Instructions

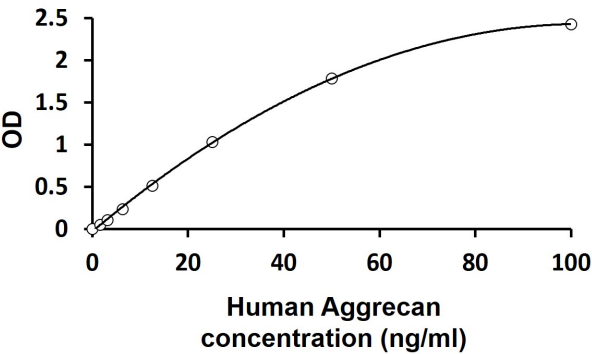
Assay Time	~ 5 hours
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Properties

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	ACAN
Gene Full Name	aggrecan
Background	This gene is a member of the aggrecan/versican proteoglycan family. The encoded protein is an integral part of the extracellular matrix in cartilagenous tissue and it withstands compression in cartilage. Mutations in this gene may be involved in skeletal dysplasia and spinal degeneration. Multiple alternatively spliced transcript variants that encode different protein isoforms have been observed in this gene. [provided by RefSeq, Jul 2008]
Function	This proteoglycan is a major component of extracellular matrix of cartilagenous tissues. A major function of this protein is to resist compression in cartilage. It binds avidly to hyaluronic acid via an N-terminal globular region. [UniProt]
Highlight	Related products: ACAN antibodies ; ACAN ELISA Kits ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	Contains mostly chondroitin sulfate, but also keratan sulfate chains, N-linked and O-linked oligosaccharides. The release of aggrecan fragments from articular cartilage into the synovial fluid at all stages of human osteoarthritis is the result of cleavage by aggrecanase. [UniProt]



ARG81477 Human Aggrecan ELISA Kit standard curve image

ARG81477 Human Aggrecan ELISA Kit results of a typical standard run with optical density reading at 450 nm.