

## ARG81910 Rat Endostatin ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG81910-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81910-002	Standard	2 X 10 ng/vial	4°C
ARG81910-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81910-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81910-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81910-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81910-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81910-008	25X Wash buffer	20 ml	4°C
ARG81910-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81910-010	STOP solution	10 ml (Ready to use)	4°C
ARG81910-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG81910 Rat Endostatin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat Endostatin in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Rat
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	Endostatin
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: 5.9%; Inter-Assay CV: 6.7%
Alternate Names	KS; KNO; KNO1; Collagen alpha-1(XVIII) chain

## Application Instructions

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Assay Time	~ 5 hours
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## Properties

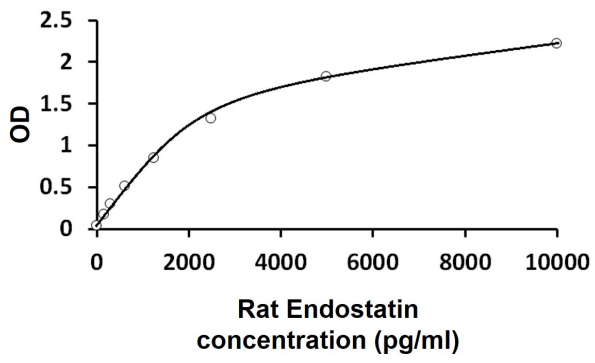
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Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail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

## Bioinformation

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Gene Symbol	COL18A1
Gene Full Name	collagen, type XVIII, alpha 1
Background	This gene encodes the alpha chain of type XVIII collagen. This collagen is one of the multiplexins, extracellular matrix proteins that contain multiple triple-helix domains (collagenous domains) interrupted by non-collagenous domains. A long isoform of the protein has an N-terminal domain that is homologous to the extracellular part of frizzled receptors. Proteolytic processing at several endogenous cleavage sites in the C-terminal domain results in production of endostatin, a potent antiangiogenic protein that is able to inhibit angiogenesis and tumor growth. Mutations in this gene are associated with Knobloch syndrome. The main features of this syndrome involve retinal abnormalities, so type XVIII collagen may play an important role in retinal structure and in neural tube closure. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]
Function	COLA18A probably plays a major role in determining the retinal structure as well as in the closure of the neural tube.  Endostatin potently inhibits endothelial cell proliferation and angiogenesis. May inhibit angiogenesis by binding to the heparan sulfate proteoglycans involved in growth factor signaling. [UniProt]
Highlight	Related products: <a href="#">Endostatin antibodies</a> ; <a href="#">Endostatin ELISA Kits</a> ; New ELISA data calculation tool: <a href="#">Simplify the ELISA analysis by GainData</a>
PTM	Prolines at the third position of the tripeptide repeating unit (G-X-Y) of the triple-helical regions are hydroxylated. [UniProt]



ARG81910 Rat Endostatin ELISA Kit standard curve image

ARG81910 Rat Endostatin ELISA Kit results of a typical standard run with optical density reading at 450 nm.