

ARG81402 Human Angiogenin ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81402-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81402-002	Standard	2 X 10 ng/vial	4°C
ARG81402-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81402-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81402-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81402-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81402-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81402-008	25X Wash buffer	20 ml	4°C
ARG81402-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81402-010	STOP solution	10 ml (Ready to use)	4°C
ARG81402-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81402 Human Angiogenin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Angiogenin 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	Angiogenin
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	39 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	78 - 5000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 6.0% Inter-Assay CV: 6.6%
Alternate Names	RNASE5; RNASE4; ALS9; EC 3.1.27.-; RNase 5; Ribonuclease 5; Angiogenin; RAA1; HEL168

Application Instructions

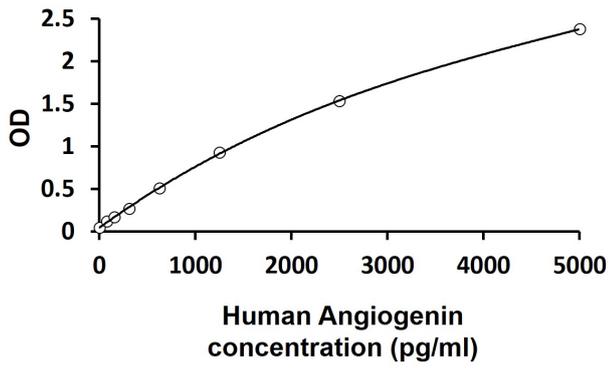
Assay Time	~ 5 hours
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Properties

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	ANG
Gene Full Name	angiogenin, ribonuclease, RNase A family, 5
Background	The protein encoded by this gene is an exceedingly potent mediator of new blood vessel formation. It hydrolyzes cellular tRNAs resulting in decreased protein synthesis and is similar to pancreatic ribonuclease. In addition, the mature peptide has antimicrobial activity against some bacteria and fungi, including <i>S. pneumoniae</i> and <i>C. albicans</i> . Alternative splicing results in two transcript variants encoding the same protein. This gene and the gene that encodes ribonuclease, RNase A family, 4 share promoters and 5' exons. Each gene splices to a unique downstream exon that contains its complete coding region. [provided by RefSeq, Aug 2014]
Function	Binds to actin on the surface of endothelial cells; once bound, angiogenin is endocytosed and translocated to the nucleus. Stimulates ribosomal RNA synthesis including that containing the initiation site sequences of 45S rRNA. Cleaves tRNA within anticodon loops to produce tRNA-derived stress-induced fragments (tiRNAs) which inhibit protein synthesis and triggers the assembly of stress granules (SGs). Angiogenin induces vascularization of normal and malignant tissues. Angiogenic activity is regulated by interaction with RNH1 in vivo. [UniProt]
Highlight	Related products: Angiogenin antibodies ; Angiogenin ELISA Kits ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData



ARG81402 Human Angiogenin ELISA Kit standard curve image

ARG81402 Human Angiogenin ELISA Kit results of a typical standard run with optical density reading at 450 nm.