

ARG81827 Human Azurocidin ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81827-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81827-002	Standard	2 X 10 ng/vial	4°C
ARG81827-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81827-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81827-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81827-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81827-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81827-008	25X Wash buffer	20 ml	4°C
ARG81827-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81827-010	STOP solution	10 ml (Ready to use)	4°C
ARG81827-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81827 Human Azurocidin ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Azurocidin 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	Azurocidin
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	31.25 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	62.5 - 4000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 6.5%; Inter-Assay CV: 7.0%
Alternate Names	Azurocidin; AZAMP; Heparin-binding protein; HBP; CAP37; HUMAZUR; NAZC; Cationic antimicrobial protein CAP37; AZU

Application Instructions

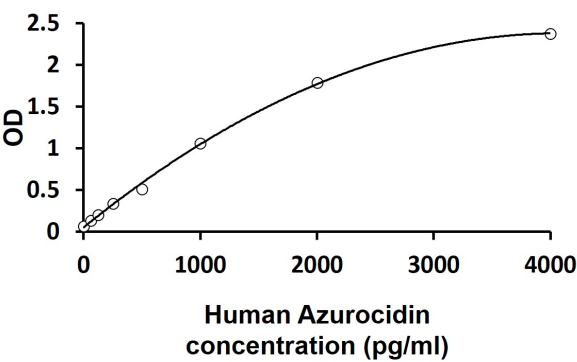
Assay Time	~ 5 hours
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Properties

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	AZU1
Gene Full Name	azurocidin 1
Background	Azurophil granules, specialized lysosomes of the neutrophil, contain at least 10 proteins implicated in the killing of microorganisms. The protein encoded by this gene is an azurophil granule antibiotic protein, with monocyte chemotactic and antimicrobial activity. It is also an important multifunctional inflammatory mediator. This encoded protein is a member of the serine protease gene family but it is not a serine proteinase, because the active site serine and histidine residues are replaced. The genes encoding this protein, neutrophil elastase 2, and proteinase 3 are in a cluster located at chromosome 19pter. All 3 genes are expressed coordinately and their protein products are packaged together into azurophil granules during neutrophil differentiation. [provided by RefSeq, Dec 2014]
Function	This is a neutrophil granule-derived antibacterial and monocyte- and fibroblast-specific chemotactic glycoprotein. Binds heparin. The cytotoxic action is limited to many species of Gram-negative bacteria; this specificity may be explained by a strong affinity of the very basic N-terminal half for the negatively charged lipopolysaccharides that are unique to the Gram-negative bacterial outer envelope. It may play a role in mediating recruitment of monocytes in the second wave of inflammation. Has antibacterial activity against the Gram-negative bacterium <i>P.aeruginosa</i> , this activity is inhibited by LPS from <i>P.aeruginosa</i> . Acting alone, it does not have antimicrobial activity against the Gram-negative bacteria <i>A.actinomycetemcomitans</i> ATCC 29532, <i>A.actinomycetemcomitans</i> NCTC 9709, <i>A.actinomycetemcomitans</i> FDC-Y4, <i>H.aphrophilus</i> ATCC 13252, <i>E.corrodens</i> ATCC 23834, <i>C.sputigena</i> ATCC 33123, <i>Capnocytophaga</i> sp ATCC 33124, <i>Capnocytophaga</i> sp ATCC 27872 or <i>E.coli</i> ML-35. Has antibacterial activity against <i>C.sputigena</i> ATCC 33123 when acting synergistically with either elastase or cathepsin G. [UniProt]
Highlight	Related products: New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	Cleavage of the N-terminal propeptide which is composed of 7 amino acids occurs in two steps. The initial cleavage of 5 amino acids is followed by the cleavage of a dipeptide to produce the mature form. [UniProt]



ARG81827 Human Azurocidin ELISA Kit standard curve image

ARG81827 Human Azurocidin ELISA Kit results of a typical standard run with optical density reading at 450 nm.