

## ARG82004 Human alpha Defensin 1 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG82004-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82004-002	Standard	2 X 10 ng/vial	4°C
ARG82004-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82004-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82004-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82004-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82004-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82004-008	25X Wash buffer	20 ml	4°C
ARG82004-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82004-010	STOP solution	10 ml (Ready to use)	4°C
ARG82004-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG82004 Human alpha Defensin 1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human alpha Defensin 1 in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	Cross Reactivity: There is no detectable cross-reactivity with recombinant human $\alpha$ -Defensin 5, $\beta$ -Defensin 3, C1qB, MCP-2 and Serpin F2 and the kit might also react to HNP2 and HNP3.
Target Name	alpha Defensin 1
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	156 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	312 - 20000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 5.2%; Inter-Assay CV: 5.5%
Alternate Names	DEF1; Neutrophil defensin 1; HNP-1; HNP-2; HP-2; HP1; Defensin, alpha 1; MRS; DEFA2; HP2; HP-1

## Application Instructions

---

Assay Time	~ 5 hours
------------	-----------

## Properties

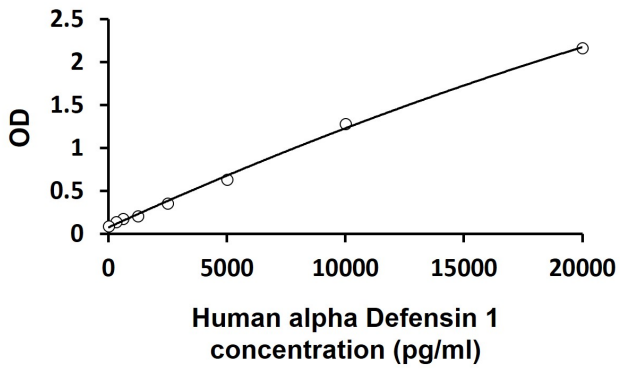
---

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	DEFA1
Gene Full Name	defensin, alpha 1
Background	Defensins are a family of antimicrobial and cytotoxic peptides thought to be involved in host defense. They are abundant in the granules of neutrophils and also found in the epithelia of mucosal surfaces such as those of the intestine, respiratory tract, urinary tract, and vagina. Members of the defensin family are highly similar in protein sequence and distinguished by a conserved cysteine motif. The protein encoded by this gene, defensin, alpha 1, is found in the microbicidal granules of neutrophils and likely plays a role in phagocyte-mediated host defense. Several alpha defensin genes are clustered on chromosome 8. This gene differs from defensin, alpha 3 by only one amino acid. This gene and the gene encoding defensin, alpha 3 are both subject to copy number variation. [provided by RefSeq, Oct 2014]
Function	Defensin 1 and defensin 2 have antibacterial, fungicide and antiviral activities. Has antimicrobial activity against Gram-negative and Gram-positive bacteria. Defensins are thought to kill microbes by permeabilizing their plasma membrane. [UniProt]
Highlight	Related products: <a href="#">alpha Defensin 1 antibodies</a> ; <a href="#">alpha Defensin 1 ELISA Kits</a> ; Related news: <a href="#">New MMP7 (total or active) ELISA kits are released</a> New ELISA data calculation tool: <a href="#">Simplify the ELISA analysis by GainData</a>
PTM	ADP-ribosylation drastically reduces cytotoxic and antibacterial activities, and enhances IL8 production.  Phosphorylation at Tyr-85 has been found in some cancer cell lines, and interferes with ADP-ribosylation. [UniProt]
Cellular Localization	Secreted. [UniProt]



ARG82004 Human alpha Defensin 1 ELISA Kit standard curve image

ARG82004 Human alpha Defensin 1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.