

## ARG81512 Human Granzyme A ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG81512-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81512-002	Standard	2 X 10 ng/vial	4°C
ARG81512-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81512-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81512-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81512-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81512-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81512-008	25X Wash buffer	20 ml	4°C
ARG81512-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81512-010	STOP solution	10 ml (Ready to use)	4°C
ARG81512-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG81512 Human Granzyme A ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Granzyme A 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	Granzyme A
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	7.8 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	15.6 - 1000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 5.8% Inter-Assay CV: 6.9%
Alternate Names	EC 3.4.21.78; in-1; CTLA3; CTL tryptase; Granzyme A; Hanukkah factor; Cytotoxic T-lymphocyte proteinase 1; H factor; HFSP; HF; Granzyme-1

## Application Instructions

---

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

## Properties

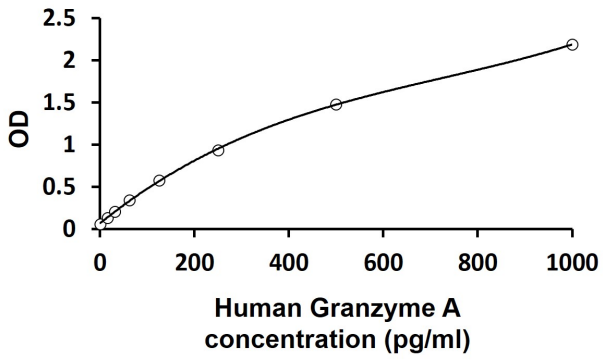
---

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	GZMA
Gene Full Name	granzyme A (granzyme 1, cytotoxic T-lymphocyte-associated serine esterase 3)
Background	Cytolytic T lymphocytes (CTL) and natural killer (NK) cells share the remarkable ability to recognize, bind, and lyse specific target cells. They are thought to protect their host by lysing cells bearing on their surface 'nonself' antigens, usually peptides or proteins resulting from infection by intracellular pathogens. The protein described here is a T cell- and natural killer cell-specific serine protease that may function as a common component necessary for lysis of target cells by cytotoxic T lymphocytes and natural killer cells. [provided by RefSeq, Jul 2008]
Function	Abundant protease in the cytosolic granules of cytotoxic T-cells and NK-cells which activates caspase-independent cell death with morphological features of apoptosis when delivered into the target cell through the immunological synapse. It cleaves after Lys or Arg. Cleaves APEX1 after 'Lys-31' and destroys its oxidative repair activity. Cleaves the nucleosome assembly protein SET after 'Lys-189', which disrupts its nucleosome assembly activity and allows the SET complex to translocate into the nucleus to nick and degrade the DNA. [UniProt]
Highlight	Related products: <a href="#">Granzyme antibodies</a> ; <a href="#">Granzyme ELISA Kits</a> ; New ELISA data calculation tool: <a href="#">Simplify the ELISA analysis by GainData</a>



ARG81512 Human Granzyme A ELISA Kit standard curve image

ARG81512 Human Granzyme A ELISA Kit results of a typical standard run with optical density reading at 450 nm.

---