

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

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|---------------------|---|
| 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 |

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| 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

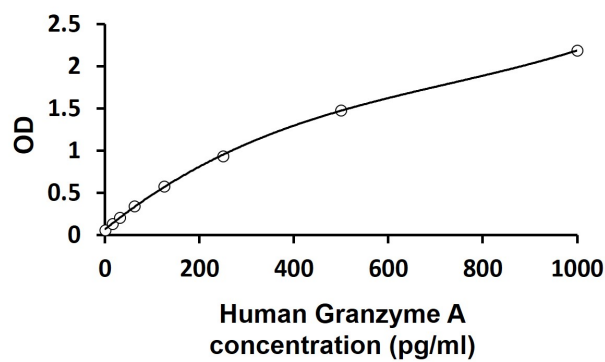
| | |
|------------|-----------|
| Assay Time | ~ 5 hours |
|------------|-----------|

Properties

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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 | 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: Granzyme antibodies ; Granzyme ELISA Kits ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData |



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.