

ARG80177 Human IL7 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

| Cat. No. | Component Name | Package | Temp |
|--------------|---------------------------------|-----------------|--------------------------|
| ARG80177-001 | Antibody-coated microplate | 8 X 12 strips | 4°C. |
| ARG80177-002 | Standard (Lyophilized) | 3 X 0.4 ng/vial | 4°C |
| ARG80177-003 | Standard diluent buffer | 20 ml | 4°C |
| ARG80177-004 | Antibody conjugate concentrate | 400 µl | 4°C |
| ARG80177-005 | Antibody diluent buffer | 16 ml | 4°C |
| ARG80177-006 | HRP-Streptavidin concentrate | 400 µl | 4°C (Protect from light) |
| ARG80177-007 | HRP-Streptavidin diluent buffer | 16 ml | 4°C |
| ARG80177-008 | 20X Wash buffer | 50 ml | 4°C |
| ARG80177-009 | TMB substrate | 12ml | 4°C (Protect from light) |
| ARG80177-010 | STOP solution | 12ml | 4°C |
| ARG80177-011 | Plate sealer | 4 strips | Room temperature |

Summary

| | |
|---------------------|--|
| Product Description | ARG80177 Human IL7 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human IL7 in Serum, Plasma, Cell culture supernatants. |
| Tested Reactivity | Hu |
| Tested Application | ELISA |
| Specificity | No significant cross-reactivity or interference with Human IL-7 sR, IL-7 mouse IL-7 sR alpha |
| Target Name | IL7 |
| Conjugation | HRP |
| Conjugation Note | Substrate: TMB and read at 450 nm |
| Sensitivity | 3.9 pg/ml |
| Sample Type | Serum, Plasma, Cell culture supernatants |
| Standard Range | 7.8 - 500 pg/ml |
| Sample Volume | 100 µl |
| Precision | CV: less than 10% |

| | |
|-----------------|---------------------|
| Alternate Names | IL-7; Interleukin-7 |
|-----------------|---------------------|

Application Instructions

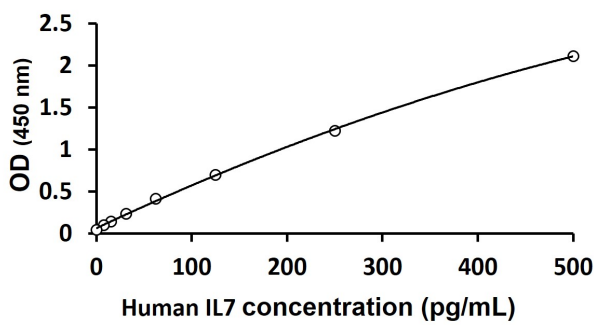
| | |
|------------|---------|
| Assay Time | 4 hours |
|------------|---------|

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

| | |
|----------------|---|
| Database links | GeneID: 3574 Human Swiss-port # P13232 Human |
| Gene Symbol | IL7 |
| Gene Full Name | interleukin 7 |
| Background | Interleukin 7 (IL7) is a lymphoid cell growth factor that affects pre-B, pro-B, and early T cells. IL7 was previously known as pre-B cell growth factor and lymphopoietin 1. IL7 supports the growth of early B cells from long-term lymphoid bone marrow cultures. It is mitogenic to thymocytes and enhances the response of cells to other stimuli such as polyhydroxyalkanoate (PHA) and concanavalin A (ConA). IL7 stimulates the proliferation of CD4+/CD8+ cells. The proliferative response of thymocytes to IL7 is not affected by antibodies to the T cell growth factors such as IL2, IL4 and IL6, suggesting that IL7 is capable of stimulating T cell proliferation through a pathway independent of the known T cell growth factors. Mature T cells respond to IL7 and Con A, but not to IL7 alone. In myeloid lineage cells, IL7 upregulates the production of pro-inflammatory cytokines and stimulates the tumoricidal activity of monocytes/macrophages. IL7 is expressed by adherent stromal cells from various tissues. |
| Highlight | Related products: IL7 antibodies ; IL7 ELISA Kits ; IL7 recombinant proteins ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData |
| Research Area | Developmental Biology kit; Immune System kit |



ARG80177 Human IL7 ELISA Kit standard curve image

ARG80177 Human IL7 ELISA Kit results of a typical standard run with optical density reading at 450 nm.