

ARG81938 Human SPHK1 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

| Cat. No. | Component Name | Package | Temp |
|--------------|---------------------------------------|----------------------|---------------------------------------------------------------------|
| ARG81938-001 | Antibody-coated microplate | 8 X 12 strips | 4°C. Unused strips should be sealed tightly in the air-tight pouch. |
| ARG81938-002 | Standard | 2 X 20 ng/vial | 4°C |
| ARG81938-003 | Standard/Sample diluent | 30 ml (Ready to use) | 4°C |
| ARG81938-004 | Antibody conjugate concentrate (100X) | 1 vial (100 µl) | 4°C |
| ARG81938-005 | Antibody diluent buffer | 12 ml (Ready to use) | 4°C |
| ARG81938-006 | HRP-Streptavidin concentrate (100X) | 1 vial (100 µl) | 4°C |
| ARG81938-007 | HRP-Streptavidin diluent buffer | 12 ml (Ready to use) | 4°C |
| ARG81938-008 | 25X Wash buffer | 20 ml | 4°C |
| ARG81938-009 | TMB substrate | 10 ml (Ready to use) | 4°C (Protect from light) |
| ARG81938-010 | STOP solution | 10 ml (Ready to use) | 4°C |
| ARG81938-011 | Plate sealer | 4 strips | Room temperature |

Summary

| | |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description | ARG81938 Human SPHK1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human SPHK1 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 | SPHK1 |
| 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: 5.8%; Inter-Assay CV: 6.7% |
| Alternate Names | SK 1; SPK 1; EC 2.7.1.91; SPHK; Sphingosine kinase 1 |

Application Instructions

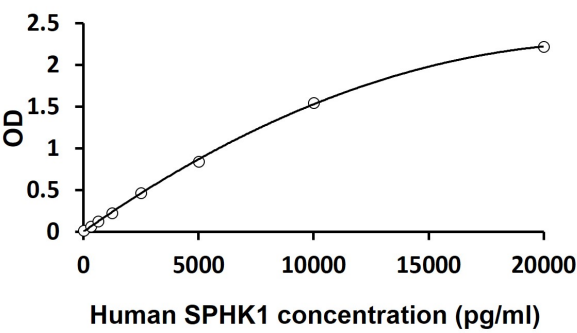
| | |
|------------|-----------|
| Assay Time | ~ 5 hours |
|------------|-----------|

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 | SPHK1 |
| Gene Full Name | sphingosine kinase 1 |
| Background | The protein encoded by this gene catalyzes the phosphorylation of sphingosine to form sphingosine-1-phosphate (S1P), a lipid mediator with both intra- and extracellular functions. Intracellularly, S1P regulates proliferation and survival, and extracellularly, it is a ligand for cell surface G protein-coupled receptors. This protein, and its product S1P, play a key role in TNF-alpha signaling and the NF-kappa-B activation pathway important in inflammatory, antiapoptotic, and immune processes. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011] |
| Function | Catalyzes the phosphorylation of sphingosine to form sphingosine 1-phosphate (SPP), a lipid mediator with both intra- and extracellular functions. Also acts on D-erythro-sphingosine and to a lesser extent sphinganine, but not other lipids, such as D,L-threo-dihydrosphingosine, N,N-dimethylsphingosine, diacylglycerol, ceramide, or phosphatidylinositol. [UniProt] |
| Highlight | Related products: SPHK1 antibodies ; SPHK1 ELISA Kits ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData |



ARG81938 Human SPHK1 ELISA Kit standard curve image

ARG81938 Human SPHK1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.