

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

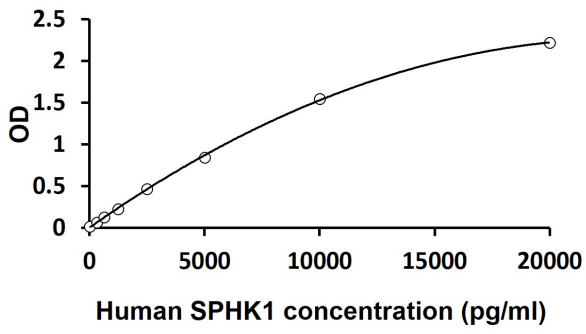
Assay Time	~ 5 hours
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Properties

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.