

## Product Datasheet

# Rat Sphingosine Kinase 1 (SPHK1) ELISA Kit (orb1736796)

### Description

The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Rat SPHK1. Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Rat SPHK1. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Rat SPHK1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of  $450\text{nm} \pm 10\text{nm}$ . The concentration of Rat SPHK1 in the samples is then determined by comparing the OD of the samples to the standard curve.

### Reactivity

Rat

### Range

31.25-2000 pg/mL

### Concentration

2000 pg/mL

### Note

For research use only

### Application notes

standard: 2000 pg/mL. Test principle: The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Rat SPHK1. Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Rat SPHK1. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Rat SPHK1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of  $450\text{nm} \pm 10\text{nm}$ . The concentration of Rat SPHK1 in the samples is then determined by comparing the OD of the samples to the standard curve

### Sample Types

tissue homogenates, cell lysates and other biological fluids

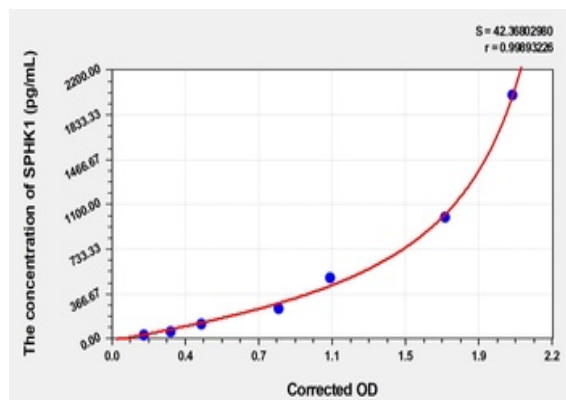
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<b>Assay Time</b>	3.5h
<b>Uniprot ID</b>	<b>Q91V26</b>
<b>Sensitivity</b>	13.6 pg/mL
<b>Expiration Date</b>	Please enquire.

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