

Product Datasheet

Rat Aldose Reductase (AKR1B1) ELISA Kit (orb1736581)

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 AKR1B1. Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Rat AKR1B1. 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 AKR1B1, 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 450nm ± 10nm. The concentration of Rat AKR1B1 in the samples is then determined by comparing the OD of the samples to the standard curve.

Reactivity Rat

Range 0.32-20 ng/mL

Concentration 20 ng/mL

Note For research use only

Application notes

standard: 20 ng/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 AKR1B1. Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Rat AKR1B1. 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 AKR1B1, 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 450nm ± 10nm. The concentration of Rat AKR1B1 in the samples is then determined by comparing the OD of the samples to the standard curve

Sample Types Se

Serum, plasma, tissue homogenates and other biological fluids.



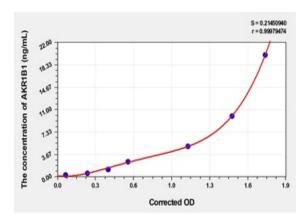


Assay Time 3.5h

Uniprot ID P07943

Sensitivity 0.14 ng/mL

Expiration Date Please enquire.



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