

Product Datasheet

Human 4-Hydroxynonenal (4-HNE) ELISA Kit (orb1994918)

Catalog Number orb1994918

Category Assays and Kits

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 Human HNE. Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Human HNE. 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 Human HNE, 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 Human HNE in the samples is then determined by comparing the OD of the samples to the standard curve.

Reactivity Human

Concentration 200 ng/mL

Application notes standard: 200 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 Human HNE. Standards or samples are added to the appropriate microtiter plate wells then with a biotin-conjugated antibody specific to Human HNE. 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 Human HNE, 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 Human HNE in the samples is then determined by comparing the OD of the samples to the standard curve

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Assay Type	Sandwich
Assay Time	3.5h
Range	3.13-200 ng/mL
Sensitivity	1.21 ng/mL
Sample Types	Serum, plasma, tissue homogenates
Note	For research use only

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