

Human 4-Hydroxynonenal ELISA Kit | 4-HNE elisa kit

Human 4-Hydroxynonenal ELISA Kit

CATALOG #
AAA101647

REACTIVITY
Human

PRODUCT SYNONYMS

4-Hydroxynonenal; Human 4-Hydroxynonenal ELISA Kit; 4-HNE (4-Hydroxynonenal)/HNE/4 HNE; 4-HNE elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of 3MH. No significant cross-reactivity or interference between 3MH and analogues is observed.
Assay Type	Competitive ELISA, Coated with Antigen
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, urine, Other liquid samples
Detection Range	31.25-2000pg/ml
Sensitivity	18.75pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level 3MH were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level 3MH were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a 4-HNE ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain standard curve as per experiment by themselves. (N/A not applicable)

X	pg/ml	0	31.25	62.5	125	250	500	1000	2000
Y	OD450	1.934	1.259	0.691	0.515	0.276	0.175	0.123	0.053

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for 4-HNE elisa kit

Principle of the Assay: This kit was based on Competitive-ELISA detection method. The microtiter plate provided in this kit has been pre-coated with 3MH. During the reaction, 3MH in the sample or standard competes with a fixed amount of 3MH on the solid phase supporter for sites on the Biotinylated Detection Antibody specific to 3MH. Excess conjugate and unbound sample or standard are washed from the plate, and HRP-Streptavidin (SABC) is added to each microplate well and incubated. Then TMB substrate solution is added to each well. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm. The concentration of 3MH in the samples is then determined by comparing the O D of the samples to the standard curve.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.