

Human 4-Hydroxy-2-Nonenal (HNE) ELISA Kit | HNE elisa kit

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CATALOG #
AAA31506

REACTIVITY
Human

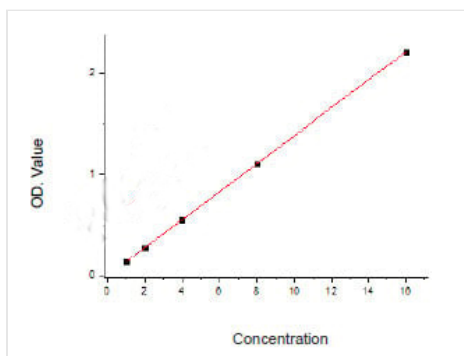
PRODUCT SYNONYMS

4-Hydroxy-2-Nonenal (HNE); Human 4-Hydroxy-2-Nonenal (HNE) ELISA Kit; HNE elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human 4-hydroxy-2-nonenal (HNE) ELISAKit has high sensitivity and excellent specificity for detection of Human HNE. No significant cross-reactivity or interference between Human HNE and analogues was observed.
Assay Type	Sandwich
Samples	Human serum, cell culture supernates and other biological fluids
Detection Range	1 ng/L - 16 ng/L
Sensitivity	< 0.1ng/L
Intra-assay Precision	Four samples of known concentration were tested twenty times on one plate to assess intra-assay precision. The CV (%)?9%.
Inter-assay Precision	Three samples of known concentration were tested in twenty separate assays to assess inter-assay precision. Assays were performed by at least three technicians using two lots of components. The CV (%)?11%.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for HNE elisa kit	Background: In this perspective, we summarize and discuss critical advancements in the study of 4-hydroxy-2-nonenal (4-HNE) as it relates to diseases and clinical complications either caused or exacerbated by oxidative stress. Since its identification in 1980, 4-HNE has been extensively studied with an emphasis on its formation, its role in pathology, and its targets. As a reactive aldehyde, and a product of lipid peroxidation, studies corroborate its ability to disrupt signal transduction and protein activity, as well as induce inflammation and trigger cellular apoptosis in conditions of oxidative stress. Principle of the Assay: Human 4-hydroxy-2-nonenal (HNE) ELISAKit employs a two-site sandwich ELISA to quantitate HNE in samples. An antibody specific for HNE has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any HNE present is bound by the immobilized antibody. After removing any unbound substances, HRP-Conjugated Human HNE detection antibody is added to the wells. Following a wash to remove any unbound HRP reagent, a Chromogen solution is added to the wells and color develops in proportion to the amount of HNE bound in the initial step. The color development is stopped and the intensity of the color is measured.
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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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/4-hydroxy-2-nonenal-hne/31506>