

OxiSelect MDA Adduct ELISA Kit

OxiSelect MDA Adduct Competitive ELISA Kit

CATALOG #
AAA44621

PRODUCT SYNONYMS

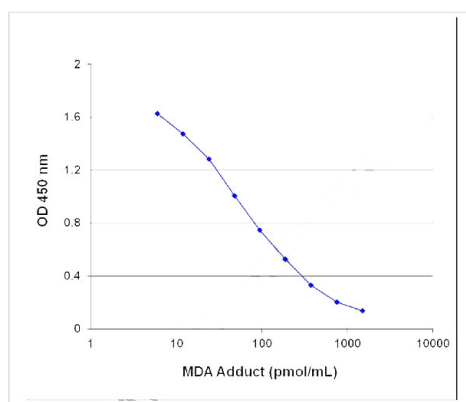
OxiSelect MDA Adduct; OxiSelect MDA Adduct Competitive ELISA Kit; OxiSelect MDA Adduct elisa kit

PRODUCT SPECIFICATIONS

Preparation and Storage

Upon receipt, aliquot and store the Anti-MDA Antibody, MDA-BSA Standard, MDA Conjugate and 100X Conjugate Diluent at -20 degree C to avoid multiple freeze/thaw cycles. Store all other kit components at 4 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for OxiSelect MDA Adduct elisa kit

Principle of the Assay: First, an MDA conjugate is coated on an ELISA plate. The unknown MDA protein samples or MDA -BSA standards are then added to the MDA conjugate preabsorbed ELISA plate. After a brief incubation, an anti-MDA polyclonal antibody is added, followed by an HRP conjugated secondary antibody. The content of MDA protein adducts in unknown samples is determined by comparison with a predetermined MDA-BSA standard curve.

Background/Introduction: Lipid peroxidation is a well-defined mechanism of cellular damage in animals and plants. Lipid peroxides are unstable indicators of oxidative stress in cells that decompose to form more complex and reactive compounds such as Malondialdehyde (MDA) and 4-hydroxynonenal (4-HNE), natural bi-products of lipid peroxidation. Oxidative modification of lipids can be induced in vitro by a wide array of pro-oxidant agents and occurs in vivo during aging and in certain disease conditions. Measuring the end products of lipid peroxidation is one of the most widely accepted assays for oxidative damage. These aldehydic secondary products of lipid peroxidation are generally accepted markers of oxidative stress. Both MDA and HNE have been shown to be capable of binding to proteins and forming stable adducts, also termed advanced lipid peroxidation end products. These modifications of proteins by MDA or HNE can cause both structural and functional changes of oxidized proteins. The OxiSelect™ MDA Adduct Competitive ELISA Kit is an enzyme immunoassay developed for rapid detection and quantitation of MDA-protein adducts. The quantity of MDA adduct in protein samples is determined by comparing its absorbance with that of a known MDA-BSA standard curve. Each kit provides sufficient reagents to perform up to 96 assays, including standard curve and unknown protein samples.

Product Categories/Family for OxiSelect MDA Adduct elisa kit

[Oxidative Stress/Damage](#); [Lipid Peroxidation](#); [MDA \(Malondialdehyde\) Assays and Reagents](#); [MDA Competitive ELISA](#)

References

1. Hoff HF, O'Neil J. (1993) J Lipid Res. 34: 1209-17.
2. Armstrong, D. and Browne, R. (1994). Free Radicals in Diagnostic Medicine. 366: 43-58.
3. Armstrong, D., et al. (1998). Free Radicals and Antioxidant Protocols. 108: 315-324.
4. Boyum, A. (1966). J. of Clinical Investigation. 21: Supplement 97.
5. Braun, D. and Fromherz, P. (1997). Applied Physics A.
6. Gidez, L., et al. (1982). J. of Lipid Research. 23: 1206-1223.
7. Lefevre G., et al. (1998). Annals de Biologie Clinique. 56(3): 305-319.
8. Ohkawa, H., et al. (1979). Anal. Biochem. 95: 351-358.
9. Yagi, K. (1998). Free Radicals and Antioxidant Protocols. 108: 101-106.

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/elisa-kits/oxiselect-mda-adduct/44621>