OxiSelect Oxidative DNA Damage (8-OHdG Quantitation) ELISA Kit

OxiSelect Oxidative DNA Damage ELISA Kit (8-OHdG Quantitation) (1 plate)

CATALOG #
AAA44528

PRODUCT SYNONYMS

OxiSelect Oxidative DNA Damage (8-OHdG Quantitation); OxiSelect Oxidative DNA Damage ELISA Kit (8-OHdG Quantitation) (1 plate); OxiSelect Oxidative DNA Damage (8-OHdG Quantitation) elisa kit

PRODUCT SPECIFICATIONS

Assay Type	Competitive (Quantitative)
Preparation and Storage	Upon receipt, aliquot and store the 8-OHdG Standard at -20 degree C and the 8-OHdG Conjugate at -80 degree C to avoid multiple freeze/thaw cycles. Store all other components at 4 degree C until their expiration dates.

IMAGES

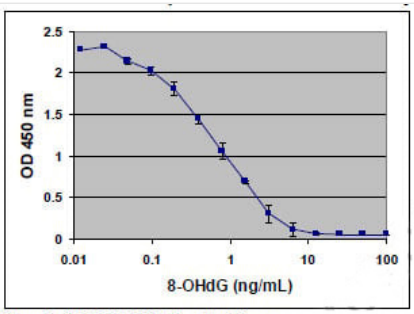

Figure 1: 8-OHdG ELISA Standard Curve.

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for OxiSelect Oxidative DNA Damage (8-OHdG Quantitation) elisa kit	Background: Free radicals and other reactive species are constantly generated in vivo and cause oxidative damage to biomolecules, a process held in check only by the existence of multiple antioxidant and repair systems as well as the replacement of damaged nucleic acids, proteins and lipids. DNA is probably the most biologically significant target of oxidative attack, and it is widely thought that continuous oxidative damage to DNA is a significant contributor to the age-related development of the major cancers, such as those of the colon, breast, rectum, and prostate. Among numerous types of oxidative DNA damage, the formation of 8-hydroxydeoxyguanosine (8-OHdG) is a ubiquitous marker of oxidative stress. 8-OHdG, one of the oxidative DNA damage byproducts, is physiologically formed and enhanced by chemical carcinogens. During the repair of damaged DNA in vivo by exonucleases, the resulting 8-OH-dG is excreted without further metabolism into urine. The OxiSelect™ Oxidative DNA Damage ELISA Kit is a competitive enzyme immunoassay developed for rapid detection and quantitation of 8-OHdG in urine, serum, or other cell or tissue DNA samples. The quantity of 8-OHdG in unknown sample is determined by comparing its absorbance with that of a known 8-OHdG standard curve. The kit has an 8-OHdG detection sensitivity range of 100 pg/mL to 20 ng/mL. Each kit provides sufficient reagents to perform up to 96 assays, including standard curve and unknown samples.
Product Categories/Family for OxiSelect Oxidative DNA Damage (8-OHdG Quantitation) elisa kit	Oxidative Stress/Damage; DNA/RNA Damage and Repair; 8-OHdG DNA Damage ELISA

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