

## General 8-Hydroxydeoxyguanosine ELISA Kit | 8-OHdG elisa kit

8-Hydroxydeoxyguanosine ELISA Kit

CATALOG #  
**AAA17667**

REACTIVITY  
**General**

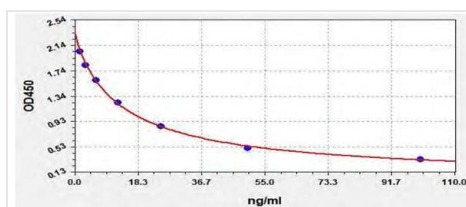
### PRODUCT SYNONYMS

8-Hydroxydeoxyguanosine; 8-Hydroxydeoxyguanosine ELISA Kit; 8-OHdG (8-Hydroxydeoxyguanosine); 8-OHdG elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | General                                                                                                                                                      |
| Specificity             | Specifically recognize 8-OHdG, no obvious cross reaction with other analogues                                                                                |
| Assay Type              | Competitive                                                                                                                                                  |
| Samples                 | Serum, plasma, urine, cell culture supernatant and other biological samples                                                                                  |
| Detection Range         | 1.563-100ng/ml                                                                                                                                               |
| Sensitivity             | 0.938ng/ml                                                                                                                                                   |
| Intra-assay Precision   | Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.                                                    |
| Inter-assay Precision   | Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.                                        |
| 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



Standard Curve (Sample)

ADDITIONAL INFORMATION

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| <b>Related Product Information for 8-OHdG elisa kit</b> | <p>Background: 8-Hydroxydeoxyguanosine is a nucleoside modification that arises from DNA oxidation and is one of the markers of DNA oxidative damage. DNA oxidative damage is a common type of DNA damage that is closely associated with many diseases, such as cancer, neurodegenerative diseases, and others. The level of 8-hydroxydeoxyguanosine can be detected in vivo or ex vivo to assess the degree of DNA oxidation and oxidative stress status, and it can also be used as a potential biomarker. In biochemistry, 8- hydroxydeoxyguanosine is also used as an important indicator in DNA damage repair studies, as it can cause damage types requiring repair, such as mismatched base pairing and DNA strand breakage.</p> <p>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 8-OHdG. During the reaction, 8-OHdG in the sample or standard competes with a fixed amount of 8-OHdG on the solid phase supporter for sites on the Biotinylated Detection Antibody specific to 8-OHdG. 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 acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm. The concentration of 8-OHdG in the samples is then determined by comparing the OD of the samples to the standard curve. The concentration of the target substance was inversely proportional to the OD450 value.</p> |
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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/8-ohdg-general-elisa-kits/8-hydroxydeoxyguanosine/17667>