

Product Datasheet

DNA Damage (8-OHdG) ELISA Kit (orb1822520)

Catalog Number	orb1822520
Category	Assays and Kits
Description	Colorimetric detection of 8-hydroxy-2-deoxy Guanosine
Target	DNA Damage (8-OHdG) ELISA Kit
Reactivity	All
Application notes	1. Prepare standard and samples in the Sample and Standard Diluent. 2. Add 50 μ L of prepared standards and samples in triplicate to appropriate wells. 3. Add 50 μ L of the diluted antibody preparation to the appropriate wells. 4. Cover plate with Plate Cover and incubate at room temperature (20-25°C) for 1 hour. 5. Wash plate 4 times with 1X Wash Buffer. 6. Add 100 μ L of TMB Substrate to each well. 7. Cover plate and develop the plate in the dark at room temperature for 30 minutes. 8. Add 100 μ L of Stop Solution to each well. 9. Measure absorbance on a plate reader at 450 nm. 10. Plot the standard curve and calculate sample concentrations.
Specificity	Cross-reactivity: 8-Hydroxy-2-deoxy Guanosine (8-OHdG): 100%. 8-Hydroxy Guanosine (8-OHG): 23%. 8-Hydroxy Guanine (8-oxoG): 23%. Guanosine: 0.01%.
Cross Reactivity	Cross-reactivity: 8-Hydroxy-2-deoxy Guanosine (8-OHdG): 100%. 8-Hydroxy Guanosine (8-OHG): 23%. 8-Hydroxy Guanine (8-oxoG): 23%. Guanosine: 0.01%.
Assay Type	Competitive
Range	0.94 - 60 ng/mL
Sensitivity	0.59 ng/mL
Sample Types	Urine, Cell Lysates, Plasma, Sample matrices
Storage	4°C and -20°C

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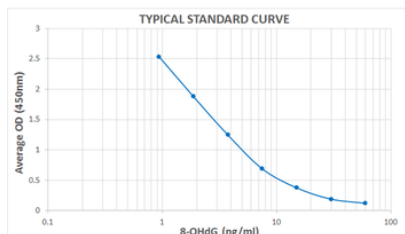
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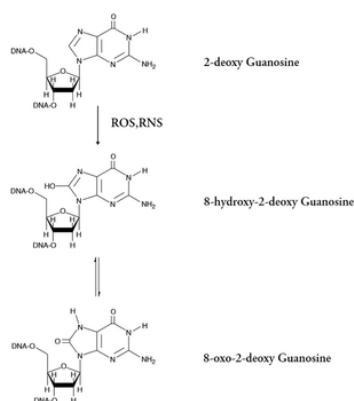
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Note For research use only

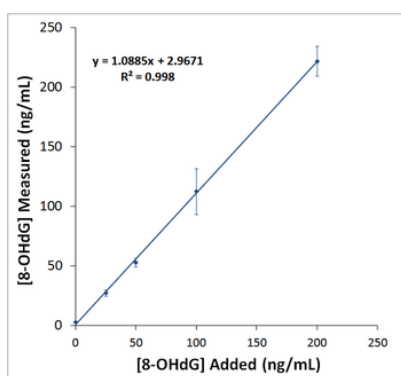
Expiration Date 6 months from date of receipt.



Typical Standard Curve for the DNA Damage (8-OHdG) ELISA kit (Enzyme-Linked Immunosorbent Assay). Assay Type: Competitive ELISA. Detection Method: Colorimetric Assay. Assay Range: 0.94 - 60 ng/ml.



Chemical Equation of the Oxidation of Guanosine



Urine Spike Assay

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