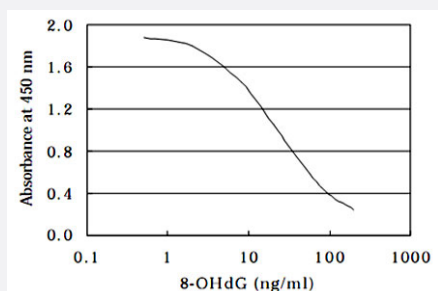


8-hydroxy-2'-deoxyguanosine ELISA Kit

Catalog # KA0444

Size 1 Kit

Applications



The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.

Specification

Product Description

8-hydroxy-2'-deoxyguanosine ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of 8-hydroxy-2'-deoxyguanosine (8-OHdG) in tissue, serum, plasma and urine resulting from oxidative damage to DNA.

Suitable Sample

Plasma, Serum, Tissue, Urine

Sample Volume

50 μ L

Label

HRP-conjugate

Detection Method

Colorimetric

Assay Type

Quantitative

Calibration Range

0.5 to 200 ng/mL

Regulation Status

For research use only (RUO)

Quality Control Testing

Standard curve

The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.

Storage Instruction

Store the kit at 4°C in the dark.

Applications

- Quantification

Publication Reference

- [Hypothermic oxygenated perfusion protects from mitochondrial injury before liver transplantation.](#)

Andrea Schlegel, Xavier Muller, Matteo Mueller, Anna Stepanova, Philipp Kron, Olivier de Rougemont, Paolo Muiesan, Pierre-Alain Clavien, Alexander Galkin, David Meierhofer, Philipp Dutkowski.

EBioMedicine 2020 Sep; 60:103014.

Application: Quant, Rodent, Perfutase from rodent DCD livers

- [Ethanollic Extract of Moringa oleifera Leaves Influences NF-κB Signaling Pathway to Restore Kidney Tissue From Cobalt-Mediated Oxidative Injury and Inflammation in Rats.](#)

Mohamed M Abdel-Daim, Samah R Khalil, Ashraf Awad, Ehsan H Abu Zeid, Reda Abd El-Aziz, Hamed A El-Serehy.

Nutrients 2020 Apr; 12(4):1031.

Application: Quant, Rat, Rat serum

- [Protective potency of Astragalus polysaccharides against tilmicosin- induced cardiac injury via targeting oxidative stress and cell apoptosis-encoding pathways in rat.](#)

Ashraf Awad, Samah R Khalil, Basma M Hendam, Reda M Abd El-Aziz, Mohamed M M Metwally, Tamer S Imam.

Environmental Science and Pollution Research International 2020 Jun; 27(17):20861.

Application: Quant, Rat, Cardiac tissues, Serum

- [An integrated perfusion machine preserves injured human livers for 1 week.](#)

Eshmuminov D, Becker D, Bautista Borrego L, Hefti M, Schuler MJ, Hagedorn C, Muller X, Mueller M, Onder C, Graf R, Weber A, Dutkowski P, Rudolf von Rohr P, Clavien PA.

Nature Biotechnology 2020 Feb; 38(2):189.

Application: Quant, Pig, Pig livers

- [Restoring strategy of ethanollic extract of Moringa oleifera leaves against Tilmicosin-induced cardiac injury in rats: Targeting cell apoptosis-mediated pathways.](#)

Khalil SR, Abdel-Motal SM, Abd-Elsalam M, Abd El-Hameed NE, Awad A.

Gene 2020 Mar; 730:144272.

Application: Quant, Rat, Rat serum

- [Differential susceptibility of kidneys and livers to proliferative processes and transcriptional level of the genes encoding desmin, vimentin, connexin 43, and nestin in rats exposed to furan.](#)

Awad A, Khalil SR, Farag MR, Nassan MA.

Ecotoxicology and Environmental Safety 2018 Jul; 162:235.

Application: Func, Rat, Rat serum

- [Ascorbic acid protects male rat brain from oral potassium dichromate-induced oxidative DNA damage and apoptotic changes: the expression patterns of caspase-3, P 53, Bax, and Bcl-2 genes.](#)

Abu Zeid EH, Hussein MMA, Ali H.

Environmental Science and Pollution Research International 2018 May; 25(13):13056.

Application: Quant, Rat, Rat brains

- [Spermatozoal Fractalkine Signaling Pathway Is Upregulated in Subclinical Varicocele Patients with Normal Seminogram and Low-Level Leucospermia.](#)

Abo El-Khair SM, Gaballah MA, Abdel-Gawad MM, Ismail SRM, Elsamanoudy AZ.

Advances in Urology 2017 Dec; 2017:5674237.

Application: ELISA, Human, Seminal plasma

- [Role of betaine in liver injury induced by the exposure to ionizing radiation.](#)

Shedid SM, Abdel-Magied N, Saada HN.

Environmental Toxicology 2018 Oct; [Epub].

Application: Func, Rat, Rat livers

- [The antifibrotic and fibrolytic properties of date fruit extract via modulation of genotoxicity, tissue-inhibitor of metalloproteinases and nuclear factor- kappa B pathway in a rat model of hepatotoxicity.](#)

Attia H, Al-Rasheed N, Mohamad R, Al-Rasheed N, Al-Amin M.

BMC Complementary and Alternative Medicine 2016 Oct; 16(1):414.

Application: Quan, Rat, Rat liver

- [Warm vs. cold perfusion technique to rescue rodent liver grafts.](#)

Schlegel A, Kron P, Graf R, Dutkowski P, Clavien PA.

Journal of Hepatology 2014 Dec; 61(6):1267.

Application: ELISA, Rat, Liver

- [Hypothermic oxygenated perfusion \(HOPE\) protects from biliary injury in a rodent model of DCD liver transplantation.](#)

Schlegel A, Graf R, Clavien PA, Dutkowski P.

Journal of Hepatology 2013 Nov; 59(5):984.

Application: Quant, Rat, DCD rat serum

- [Carnosine sustains the retention of cell morphology in continuous fibroblast culture subjected to nutritional insult.](#)

Kantha SS, Wada S, Tanaka H, Takeuchi M, Watabe S, Ochi H.

Biochemical and Biophysical Research Communications 1996 Jun; 223(2):278.

Application: Quant, Rat, Rat fibroblasts

- [Oxidative damage to DNA during aging: 8-hydroxy-2'-deoxyguanosine in rat organ DNA and urine.](#)

Fraga CG, Shigenaga MK, Park JW, Degan P, Ames BN.

PNAS 1990 Jun; 87(12):4533.

Application: Quant, Rat, Rat urine

- [Formation of 8-hydroxyguanine moiety in cellular DNA by agents producing oxygen radicals and evidence for its repair.](#)

Kasai H, Crain PF, Kuchino Y, Nishimura S, Ootsuyama A, Tanooka H.

Carcinogenesis 1986 Nov; 7(11):1849.