

Chicken 8-Hydroxydeoxyguanosine (8-OHdG) ELISA Kit-Competitive

Cat. No.: EK1F431

Product Type: Animal Immunoassay Kits

Size: 96T

Product Overview

BioVenic Chicken 8-Hydroxydeoxyguanosine (8-OHdG) ELISA Kit-Competitive is designed for the quantitative determination of Chicken 8-Hydroxydeoxyguanosine (8-OHdG) in serum, plasma, tissue homogenate, cell culture supernatant, cell extract, and other biological fluids using a Competitive ELISA method. For research use only.

Specifications

Assay Type	ELISA-Competitive
Specificity	The assay kit is specific for Chicken 8-OHdG.
Target Species	Chicken
Species Reactivity	Chicken
Detection Range	93.75-6000 pg/mL
Sensitivity	26.29 pg/mL
Reproducibility	Intra-Assay: CV < 10%; Inter-Assay: CV < 10%
Assay Time	Around 120 min
Sample Requirement	Serum, plasma, tissue homogenate, cell culture supernatant, cell extract, and other biological fluids.

Target Information

8-Hydroxydeoxyguanosine (8-OHdG) is a product of oxidatively damaged DNA formed by hydroxyl radical, singlet oxygen, and direct photodynamic action. It can function as an indicator for oxidative stress. It is a marker of oxidative damage to DNA. It results from the hydroxylation of the 8th position of deoxyguanosine (dG), one of the four DNA bases. It can be measured non-invasively in various samples, including urine, serum, peripheral blood leukocytes, and organ tissues.

Target/Biomarker	Chicken 8-OHdG
Target Synonym	8OHdG; 7,8-Dihydro-8-Oxo-2'-Deoxyguanosine; 7,8-Dihydro-8-Oxodeoxyguanosine; 8-Hydroxy-2'-Deoxyguanosine; 8-Oxo-DG; 7,8-dihydrodeoxyguanosine

Shipping and Storage

This product is shipped with gel ice packs. It is recommended to store at 2-8 °C (Up to 6 months).

Reference

Pan, X. *et al.* The impaired redox status and activated nuclear factor-erythroid 2-related factor 2/antioxidant response element pathway in wooden breast myopathy in broiler chickens. *Animal bioscience*. 2021, 34: 652-661.

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.