

ARG80857 8 Hydroxyguanosine (8-OHdG) ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG80857 8 Hydroxyguanosine (8-OHdG) ELISA Kit is an Enzyme Immunoassay kit for the quantification of 8-OHdG in serum, plasma, urine and saliva. This ELISA Kit is a competitive enzyme-linked immunosorbent assay (ELISA) utilising Monoclonal antibody (clone N45.1) which is highly specific for DNA damage, not cross react with RNA oxidation products such as 8-hydroxy-guanine and 8-hydroxy-guanosine.
Tested Reactivity	Other
Tested Application	ELISA
Target Name	8 Hydroxyguanosine (8-OHdG)
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm
Sensitivity	0.5 ng/ml
Sample Type	Serum, plasma, urine and saliva.
Standard Range	0.5 - 200 ng/ml
Sample Volume	50 µl

Application Instructions

Assay Time	2 x 1 h (37°C), 15 min (RT)
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

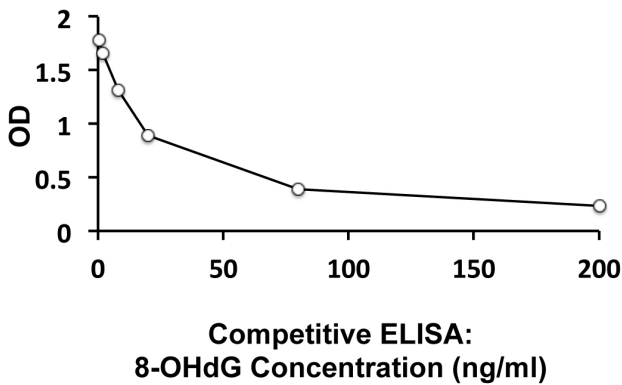
Bioinformation

Gene Full Name	8-Hydroxy-2'-Deoxyguanosin
Background	The assay system is a competitive binding assay using plates which are pre-coated with 8-OHdG. The monoclonal antibody is supplied in liquid form. Therefore higher concentrations of 8-OHdG will result in a lower signal at the end of the assay procedure. Salivary 8-OHdG seems to be a useful marker for oxidative damage of DNA or oxydative stress in total. Oxidative stress is a major cause of endothelial dysfunction. Oxidative stress produces reactive oxygen species, mainly superoxide, and may promote endothelial dysfunction by inactivating the production of NO. Oxidative stress might play a significant role in the pathophysiologic mechanism of erectile dysfunction.

There is some evidence that the measurement of salivary 8OHdG also is a useful biomarker for predicting severe erectile dysfunction and hypogonadism. [Yasuda et al., 2008. Journal of Sexual Medicine]

Research Area Gene Regulation kit

Images



ARG80857 8 Hydroxyguanosine (8-OHdG) ELISA Kit standard curve example image

The representative standard curve of ARG80857 8 Hydroxyguanosine (8-OHdG) ELISA Kit. The standard curve is for demonstration only and cannot be used in place of data generations at the time of assay. The standard curve should be generated each time the assay is performed.