5-Hydroxymethylcytosine DNA ELISA kit

Highly sensitive, rapid ELISA kit to quantify 5-hydroxymethylcytosine in DNA with results that closely correlate to mass spectrometry analysis.

The 5-Hydroxymethylcytosine DNA ELISA kit is a complete, colorimetric, immunometric immunoassay kit for the quantitative determination of 5-hydroxymethylcytosine in DNA with results in just 3 hours.

The 5-methylcytosine (5-mC) modification of DNA in epigenetic regulation has been well studied over the last several decades. However, the role of the so-called “sixth base”, 5-hydroxymethylcytosine (5-hmC), has yet to be defined. Recent studies have associated 5-hmC patterns to transcriptional regulation of genes, which may contribute to normal and disease states of organisms.

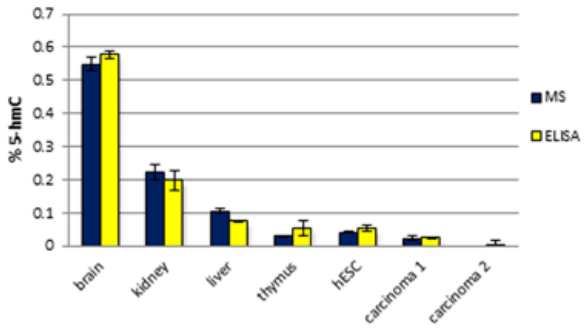
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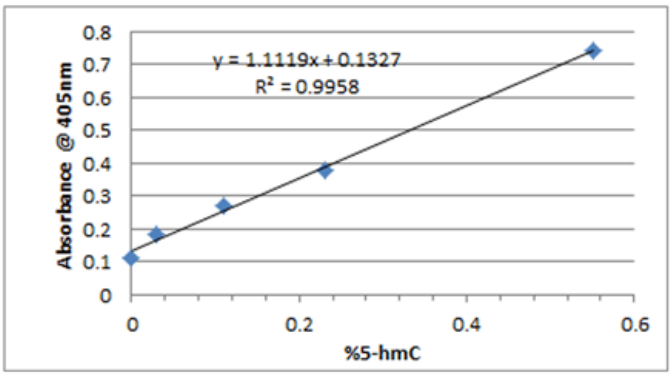
Ordering Information Order Online »

ADI-900-225-0001	96 wells
ADI-900-225-1	96 wells

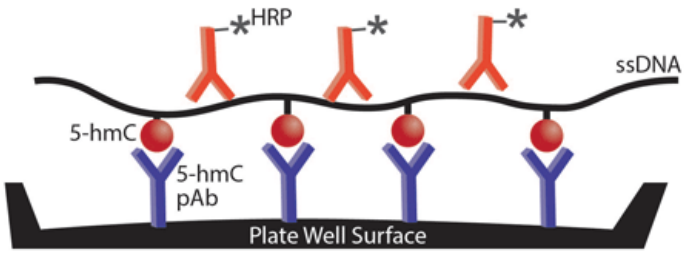
Manuals, SDS & CofA View Online »

- Rapid - fully quantitative results in < 3 hours
- Convenient – user-friendly alternative to mass spectrometry
- Simple – efficient and well-established protocol
- High-throughput – 96 well format ideal for global detection, tissue-specific quantitation, high-throughput compound screening, and more





DNA Mass Spectroscopy versus ELISA analysis: The 5-hmC DNA ELISA Kit (prod. no. ADI-900-225) quantifies 5-hmC in numerous DNA samples with close correlation to LC-MS/MS-MRM analysis. DNA samples include: brain, kidney, liver, thymus, human embryonic stem cells and two carcinoma samples.



Handling & Storage

Use/Stability	Store all components at 4°C, except antibody and control set should be stored at -20°C, while the DNA HRP antibody should be stored at -80°C.
Shipping	Dry Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	5-hmC
Application	Colorimetric detection, ELISA
Application Notes	For the quantitative determination of species independent 5-hydroxymethylcytosine DNA in a variety of DNA samples.
Assay Time	~3 hours
Compatibility	This product is compatible with the **Absorbance 96 Plate Reader**.
Contents	Microtiter Plate, Coating Buffer, ELISA Buffer, Primary Antibody, Antibody-conjugate, HRP Developer, Controls
Species Reactivity	Species independent
Wavelength	450 nm

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