

HomoArginine ELISA kit – High Sensitivity – Plasma & Serum

Ref: IS-I-0500R

HomoArginine (hArg) is a basic non-essential amino acid that exerts beneficial effects on vascular homeostasis, more likely through the increase of nitric oxide (NO) that can be explained through two mechanisms since hArg **i)** serves as a precursor of NO and **ii)** favors the elevation of L-Arg - main substrate of NO synthase - by inhibiting the enzyme Arginase.

The homoArginine (hArg) ELISA kit allows for the determination of hArg in **serum** and **plasma** samples working with a sample volume of 20µL. The kit is easy to implement and well suited for both preclinical and clinical studies.

Sample type Serum, Plasma

Capacity 96 tests

Sensitivity 125nM

Range 0.32 - 12.5µM

Assay time Sample preparation 3h, ELISA overnight

Reactivity Reacts with all species

Citations [Cited in literature](#)

INFORMATIONS

Product overview

Product name	HomoArginine ELISA kit
Description	Competitive ELISA kit for the quantitative measurement of Homoarginine (hARG) in serum and plasma samples. For research use only
Format	96-well plate
Samples	Serum, Plasma
Minimal sample volume	20µL
Reactivity	Reacts with all species
Standard range	0.32 - 12.5µM
Sensitivity	125nM
Specificity	No significant cross-reactivity was observed with L-Arginine, Agmatine, L-Citruline, L-Ornithine, ADMA and SDMA
Assay time	Sample preparation 3h and ELISA overnight
Storage	Store at 2-8°C for up to 6 months
Datasheets	Instructions for use , Material Safety Datasheet

PROTOCOLS

Sample collection & storage	Serum: Do not use lipemic, haemolytic samples, as well as samples containing precipitates or fibrin strands Store samples at 2-8°C for up to 48h or -20°C for longer period (up to 6 months)
Sample preparation	Sample preparation (3 hours)
ELISA	Homoarginine antiserum overnight incubation, revelation and read steps (1h)
Detailed protocol	Download instructions for use

REFERENCES

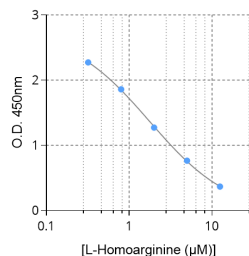
Citations

Product pictures

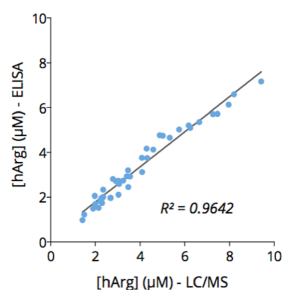


Homoarginine (hARG) ELISA kit

Our 96-w plate format immunoassay works with a sample volume of 20 μ L and presents a 125nM sensitivity. The assay has been cross-validated with LC/MS.



Typical standard curve of Homoarginine ELISA



Cross-validation of Homoarginine ELISA and LC/MS data in human plasma samples

hArg was quantified in human plasma samples from 40 healthy subjects either using IS-I-0500 ELISA kit or by liquid chromatography-mass spectrometry (LC/MS). Correlation coefficient of 0.964 confirms the accuracy of the immunoassay.

Contact information

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To order, review, ask for technical support, visit product page at:

<https://www.immusmol.com/shop/homoarginine-elisa-kit/>