

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

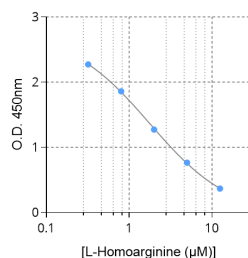
Citations

Product pictures

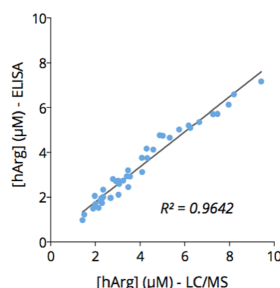


Homoarginine (hARG) ELISA kit

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

Immusmol
229 Cours de l'Argonne
33 000 Bordeaux - France
Tel: +33 (0) 5 6431 1170
www.immusmol.com

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

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