

# L-Serine ELISA kit – High Sensitivity – Plasma, Serum, Supernatant

Ref: IS-I-1200R

L-Serine (L-Ser) is a non-essential amino acid which becomes conditionally essential - in certain circumstances - particularly when it cannot be synthesized in a sufficient amount to meet the cellular demands. L-Ser is important for brain development and functions which are especially sustained by altered L-Ser levels in psychiatric disorders and occurrence of severe neurological abnormalities in patients with defects in L-Ser biosynthesis.

The L-Ser ELISA kit allows for the determination of Ser in cell culture supernatant, serum, and plasma samples working with a sample volume of 20 $\mu$ L. The kit is easy to implement and well-suited for both preclinical and clinical studies

**Sample type** Plasma, Serum, Cell culture supernatant

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**Capacity** 96 tests

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**Sensitivity** 2.4 $\mu$ M

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**Range** 3.8 - 625 $\mu$ M

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**Assay time** Sample preparation 3h, ELISA overnight

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**Reactivity** Reacts with all species

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**References** [Cited in 1 paper](#)

## INFORMATIONS

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### Product overview

<b>Product name</b>	L-Serine ELISA kit
<b>Description</b>	Competitive ELISA kit for the quantitative measurement of L-Serine (Ser) in plasma and serum samples. <b>For research use only</b>
<b>Format</b>	96-well plate
<b>Samples</b>	Plasma, Serum, Cell supernatant
<b>Minimal sample volume</b>	20µL
<b>Reactivity</b>	Reacts with all species
<b>Standard range</b>	3.8 - 625µM
<b>Sensitivity</b>	2.4µM
<b>Specificity</b>	No significant cross-reactivity was observed with Glycine, L-Threonine, L-Cysteine and D-Serine
<b>Assay time</b>	Sample preparation 3h and ELISA overnight
<b>Storage</b>	Store at 2-8°C for up to 6 months
<b>Datasheets</b>	<a href="#">Instructions for use</a> , <a href="#">Material Safety Datasheet</a>

For research use only - Do not use for diagnostic

## PROTOCOLS

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**Sample collection & storage** EDTA Plasma  
Store samples at 2-8°C for up to 48h or -20°C for longer period (up to 6 months)

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**Sample preparation** Sample preparation (3 hours)

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**ELISA** L-Serine antiserum overnight incubation, revelation and read steps (1h)

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**Detailed protocol** [Download instructions for use](#)

## REFERENCES

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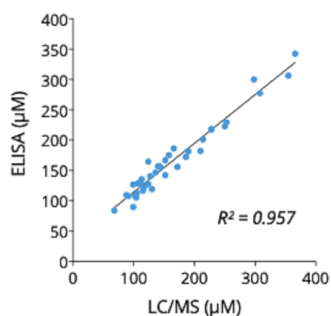
**Production citation**

## Product pictures

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**L-Serine ELISA kit**



### **Cross-validation of L-Serine ELISA and LC/MS data in human plasma samples**

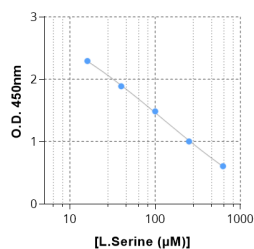
Ser was quantified in human plasma samples from 40 healthy subjects using IS-I-1200 ELISA kit or by LC/MS. Correlation study showed  $R^2=0.957$ , thereby confirming the accuracy of the immunoassay.



**L-Serine ELISA kit**



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**Typical standard curve of Serine ELISA**

## Contact information

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

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