

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 μ L. The kit is easy to implement and well-suited for both preclinical and clinical studies

Sample type Plasma, Serum, Cell culture supernatant

Capacity 96 tests

Sensitivity 2.4 μ M

Range 3.8 - 625 μ M

Assay time Sample preparation 3h, ELISA overnight

Reactivity Reacts with all species

References [Cited in 2 papers](#)

INFORMATIONS

Product overview

Product name	L-Serine ELISA kit
Description	Competitive ELISA kit for the quantitative measurement of L-Serine (Ser) in plasma and serum samples. For research use only
Format	96-well plate
Samples	Plasma, Serum, Cell supernatant
Minimal sample volume	20µL
Reactivity	Reacts with all species
Standard range	3.8 - 625µM
Sensitivity	2.4µM
Specificity	No significant cross-reactivity was observed with Glycine, L-Threonine, L-Cysteine and D-Serine
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

For research use only - Do not use for diagnostic

PROTOCOLS

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)

Sample preparation Sample preparation (3 hours)

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

Detailed protocol [Download instructions for use](#)

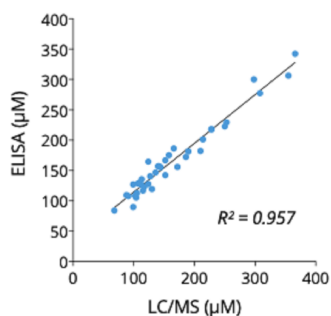
REFERENCES

Production citation

Product pictures



L-Serine ELISA kit



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

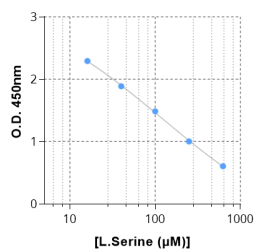
Ser was quantified in human plasma samples from 40 healthy subjects using IS-I-1200 ELISA kit or by LC/MS. Correlation study showed $R^2=0.957$, thereby confirming the accuracy of the immunoassay.



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/>