

# Quinolinic Acid ELISA kit

Ref: IS-I-0100R

Quinolinic acid (QA) is a metabolite produced along the Kynurenine Pathway, which converts the amino acid Tryptophan to NAD<sup>+</sup>, a co-factor of many enzymatic reactions.

The Quinolinic Acid ELISA kit is optimized for the quantitation of Quinolinic Acid (QUIN or QA) within **serum and plasma** samples. This easy-to-use competitive assay is well-suited for both small and large series of samples. Working with a low sample volume of 25µL, this assay enables pre-clinical and clinical sample testings.

**Sample type** Serum, Plasma

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**Capacity** 96 tests

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**Sensitivity** 35.9nM

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**Range** 150 - 12150nM

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**Assay time** Sample acylation 120 min, ELISA overnight

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**Reactivity** Reacts with all species

## INFORMATIONS

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### Product overview

<b>Product name</b>	Quinolinic Acid ELISA kit
<b>Description</b>	Competitive ELISA kit for the quantitative measurement of Quinolinic Acid levels in serum and plasma samples. <b>For research use only</b>
<b>Format</b>	96-well plate
<b>Samples</b>	Serum, Plasma
<b>Minimal sample volume</b>	25µL
<b>Reactivity</b>	Reacts with all species
<b>Standard range</b>	25 - 2000ng/mL
<b>Sensitivity</b>	< 6ng/mL
<b>Specificity</b>	No significant cross-reactivity was observed with Quinolinic Acid analogs such as Kynurenic acid, Xanthurenic acid, Kynurenine, Picolinic acid, 3-Hydroxy-Anthranilic Acid
<b>Assay time</b>	Sample acylation 120 min 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>

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## PROTOCOLS

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### Sample collection & storage

Serum: Do not use lipemic, haemolytic samples, as well as samples containing precipitates or fibrin strands  
Plasma (Heparin)  
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 acylation (120 min)

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### ELISA

Quinolinic acid antiserum overnight incubation, revelation and read steps (1h)

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### Detailed protocol

[Download instructions for use](#)

## REFERENCES

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### Product citation

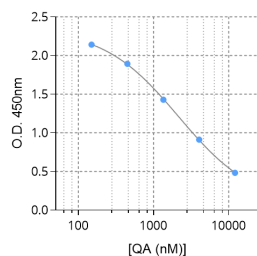
## Product pictures

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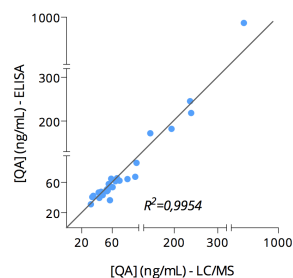


**Quinolinic acid ELISA kit**

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**Typical standard curve of Quinolinic acid ELISA**

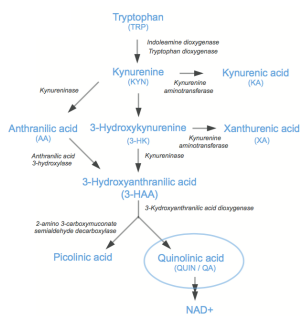


**Cross-validation of Quinolinic Acid ELISA and LC/MS data in human serum samples**

Human serum samples (n=28) were processed for Quinolinic Acid measurement by mean of both QA ELISA kit and liquid chromatography-mass spectrometry (LC/MS). As depicted, results obtained with ELISA and LC/MS are highly correlated (R Squared=0,9954).



**Quinolinic acid ELISA kit**



**Quinolinic acid (QA) is a metabolite produced along the Kynurenine Pathway**

Quinolinic acid (QA) is a metabolite produced along the Kynurenine Pathway, which converts the amino acid Tryptophan to NAD<sup>+</sup>, a co-factor of many enzymatic reactions. It has been described to share several neurotoxic functions particularly through the activation of the N-Methyl-D-Aspartate receptor. Its production occurring in myeloid cells (macrophages, microglia, etc.) is mainly driven by inflammatory stress and is therefore suspected to play a key role in neuroinflammatory disorders such as Alzheimer and Parkinson diseases but also Multiple Sclerosis, Amyotrophic Lateral Sclerosis. Hence, while QA has been proposed as a biomarker in these indications, it might certainly warrant further investigation to serve as a surrogate in other "inflammation" related diseases such as cancer, metabolic disorders, etc.

## Contact information

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[www.immusmol.com](http://www.immusmol.com)

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

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