

Quinolinic Acid ELISA kit

High Sensitivity, Plasma & Serum

Ref: IS-I-0100R

Quinolinic acid (QA) is a metabolite produced along the Kynurenine Pathway, which converts the aminoacid Tryptophan to NAD⁺, 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

Capacity 96 tests

Sensitivity 35.9nM

Range 150 - 12150nM

Assay time Sample acylation 120 min, ELISA overnight

Reactivity Reacts with all species

References [Cited in 14 papers](#)

INFORMATIONS

Product overview

Product name	Quinolinic Acid ELISA kit
Description	Competitive ELISA kit for the quantitative measurement of Quinolinic Acid levels in serum and plasma samples. For research use only
Format	96-well plate
Samples	Serum, Plasma
Minimal sample volume	25µL
Reactivity	Reacts with all species
Standard range	25 – 2000ng/mL
Sensitivity	< 6ng/mL
Specificity	No significant cross-reactivity was observed with Quinolinic Acid analogs such as Kynurenic acid, Xanthurenic acid, Kynurenine, Picolinic acid, 3-Hydroxy-Anthranilic Acid
Assay time	Sample acylation 120 min 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
Plasma (Heparin)
Store samples at 2-8°C for up to 48h or -20°C for longer period (up to 6 months)

Sample preparation

Sample acylation (120 min)

ELISA

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

Detailed protocol

[Download instructions for use](#)

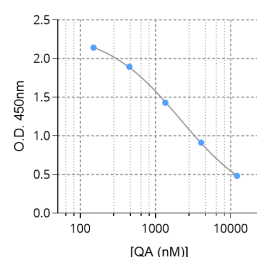
REFERENCES

Product citations

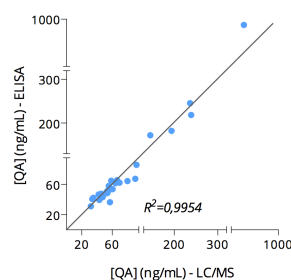
Product pictures



Quinolinic acid ELISA kit



Typical standard curve of Quinolinic acid ELISA

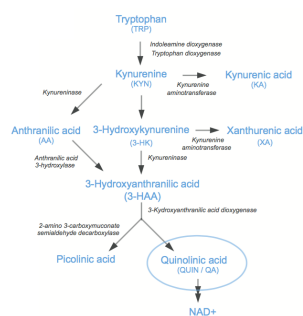


Cross-validation of Quinolinic Acid ELISA and LC/MS data in human serum samples

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 ($R^2=0.9954$).



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

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