

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	say time Sample acylation 120 min, ELISA overnight	
Reactivity	Reacts with all species	

References Cited in 10 papers

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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		

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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

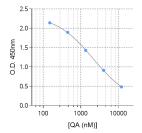
Product pictures



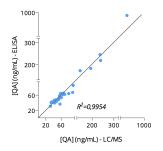
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Typical standard curve of Quinolinic acid ELISA

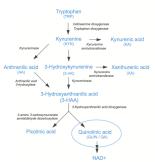


Cross-validation of Quinolinic Acid ELISA and LC/MS data in human serum samples

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).



Ouinolinic 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 aminoacid 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 in ammatory stress and is therefore suspected to play a key role in neuroin ammatory disorders such as Alzheimer and Parkinson diseases but also Multiple Sclerosis, Amyotrophic Lateral Scle-rosis. Hence, while QA has been proposed as a biomarker in these indications, it might certainly warrant further investigation to serve as a surro- gate in other "in ammation" related diseases such as cancer, metabolic disorders, etc.

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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/

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