

Human Kynurenine ELISA Kit

Kynurenine ELISA

CATALOG #
AAA14217

REACTIVITY
Human

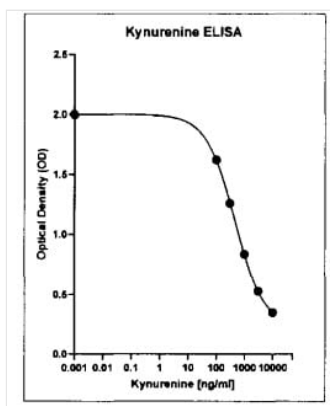
PRODUCT SYNONYMS

Kynurenine; Kynurenine ELISA; Kynurenine elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Assay Type	Quantitative Competitive
Samples	Serum and EDTA-plasma samples to evaluate L-kynurenine homeostasis
Preparation and Storage	2 - 8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Kynurenine elisa kit

Background: Kynurenine is a non-proteinogenic amino acid that is produced as a metabolic intermediate during the degradation of tryptophan [1 - 5]. The degradation of tryptophan is catalyzed by the inducible enzyme indolamine-2,3-dioxygenase (IDO). The product is kynurenine [4, 6 - 8]. Cytokines, in particular interferon- γ [5, 9, 10], influence the activity of the IDO, so that is why the kynurenine path is closely linked to the immune system [9, 11]. Kynurenine can be further converted to neuroprotective kynurenic acid, but also to neurotoxic quinolinic acid [6, 11].

Intended Uses: Enzyme immunoassay for the quantitative determination of L-kynurenine in serum and EDTA-plasma samples to evaluate L-kynurenine homeostasis. During acylation, kynurenine is activated at 37 degree C and subsequently coupled to a protein. The competitive ELISA following sample preparation is based on the microtiter plate format. The antigen (kynurenine) is bound to the solid phase. The analyte concentrations of the acylated standards, controls and samples and the analyte concentrations bound to the solid phase, compete for the available binding Sites of the antibodies. When the system is in equilibrium, the free antigens and free antigen-antibody complexes are removed by washing. The antigen-antibody complex bound to the solid phase is determined with an enzyme-labelled antibody and detected with a substrate by a colour reaction. The reaction is measured at 450 nm. The concentrations of the unknown samples are determined using a standard curve and matching the measured absorbance. Manual processing is recommended. The use of laboratory automation is the responsibility of the user. This product is not intended to clinical diagnoses.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/kynurenine/14217>