

General Kynurenic Acid (KYNA) ELISA Kit | KYNA elisa kit

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CATALOG #
AAA20809

REACTIVITY
General

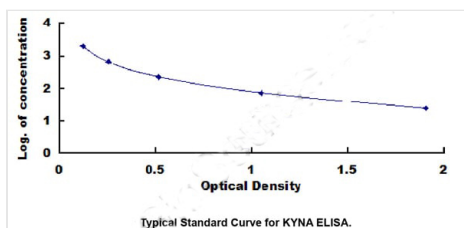
PRODUCT SYNONYMS

Kynurenic Acid (KYNA); General Kynurenic Acid (KYNA) ELISA Kit; Kinurenic acid; Kynuronic acid; Kuinurenic acid; Transthorine; KYNA elisa kit

PRODUCT SPECIFICATIONS

Reactivity	General
Specificity	This assay has high sensitivity and excellent specificity for detection of KYNA. No significant cross-reactivity or interference between KYNA and analogues was observed.
Assay Type	Quantitative Competitive
Samples	Serum, plasma and other biological fluids
Detection Range	24.69-2,000ng/mL
Sensitivity	< 9.13ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level KYNA were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level KYNA were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for KYNA elisa kit	Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to KYNA has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled KYNA and unlabeled KYNA (Standards or samples) with the pre-coated antibody specific to KYNA. After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of KYNA in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of KYNA in the sample. Intended Uses: The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of KYNA in serum, plasma and other biological fluids.
References	A kynurenine pathway enzyme aminocarboxymuconate-semialdehyde decarboxylase may be involved in treatment-resistant depression, and baseline inflammation status of patients predicts treatment response: a pilot study; J Neural Transm (Vienna); 2022 Dec 14; PMID: 36515768; Niyazi Samet Yilmaz; Department of Medical Biochemistry, Faculty of Medicine, Gazi University, Ankara, Turkey. dr.sametyilmaz.0653@gmail.com.

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/general-elisa-kits/kynurenine-acid-kyna/20809>