

General Eicosapentaenoic Acid (EPA) ELISA Kit | EPA elisa kit

General Eicosapentaenoic Acid (EPA) Mini Samples ELISA Kit

CATALOG #
AAA161587

REACTIVITY
General

PRODUCT SYNONYMS

Eicosapentaenoic Acid (EPA); General Eicosapentaenoic Acid (EPA) Mini Samples ELISA Kit; EPA Mini-sample ELISA kit (General species); Icosapentaenoic Acid; Timnodonic Acid; EPA elisa kit

PRODUCT SPECIFICATIONS

Reactivity	General
Specificity	This assay has high sensitivity and excellent specificity for detection of Mini Samples Eicosapentaenoic Acid (EPA). No significant cross-reactivity or interference between Mini Samples Eicosapentaenoic Acid (EPA) and analogues was observed. Reactive with General species EPA/Eicosapentaenoic Acid
Assay Type	Competitive Inhibition
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Method	Colormetric
Featured Series	ME kit
Detection Range	6.17-500ng/mL
Sensitivity	2.33ng/mL
Sample Size	15-25uL
Assay Time	3h
Function	Detects protein (micro-volume samples 15-25 ul)
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Mini Samples Eicosapentaenoic Acid (EPA) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Mini Samples Eicosapentaenoic Acid (EPA) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10%, Inter-Assay: CV<12%
Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 25ul standard or sample to each well. And then add 25uL prepared Detection Reagent A immediately. Shake and mix. Incubate 1 hour at 37 degree C 3. Aspirate and wash 3 times 4. Add 50ul prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 5. Aspirate and wash 5 times 6. Add 50ul Substrate Solution. Incubate 10-20 minutes at 37 degree C 7. Add 25ul Stop Solution. Read at 450 nm immediately.

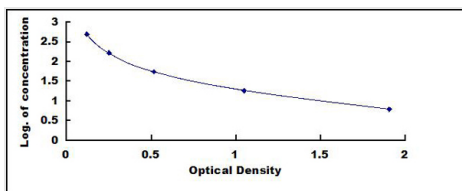
Test Principle

This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to Mini Samples Eicosapentaenoic Acid (EPA) has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled Mini Samples Eicosapentaenoic Acid (EPA) and unlabeled Mini Samples Eicosapentaenoic Acid (EPA)(Standards or samples) with the pre-coated antibody specific to Mini Samples Eicosapentaenoic Acid (EPA). 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 Mini Samples Eicosapentaenoic Acid (EPA) in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of Mini Samples Eicosapentaenoic Acid (EPA) in the sample.

Preparation and Storage

Store at 4 degree C for 1 month/-20 degree C for long-term (One year within shelf life)
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)

Typical Standard Curve for EPA ELISA (Competitive)

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/eicosapentaenoic-acid-epa/161587>