

## Rat Arachidonic Acid (AA) ELISA Kit

Catalog No: #EK7603



Package Size: #EK7603-1 48T #EK7603-2 96T

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## Description

Product Name	Rat Arachidonic Acid (AA) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat ( <i>Rattus norvegicus</i> )
Storage	<p>The stability of ELISA 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.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

## Application Details

Detect Range: 2.47-200 µg/mL

Sensitivity: 0.94 µg/mL

Sample Type: Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time: 1-4.5h

Detection wavelength: 450 nm

## Product Description

**Detection Method:** Sandwich Test principle: This assay employs a two-site sandwich ELISA to quantitate AA in samples. An antibody specific for AA has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any AA present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for AA is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of AA bound in the initial step. The color development is stopped and the intensity of the color is measured.

**Product Overview:** Arachidonic acid (AA, sometimes ARA) is an omega-6 fatty acid 20:4(-6). It is the counterpart to the saturated arachidic acid found in peanut oil. In chemical structure, arachidonic acid is a carboxylic acid with a 20-carbon chain and four cis double bonds; the first double bond is located at the sixth carbon from the omega end. Some chemistry sources define 'arachidonic acid' to designate any of the eicosatetraenoic acids.

However, almost all writings in biology, medicine and nutrition limit the term to all-cis 5,8,11,14-eicosatetraenoic acid. Arachidonic acid is a polyunsaturated fatty acid that is present in the phospholipids (especially phosphatidylethanolamine, phosphatidylcholine and phosphatidylinositides) of membranes of the body's cells, and is abundant in the brain and muscles.

Note: This product is for in vitro research use only