

## Human Alpha-1-Acid Glycoprotein (A1AGP) ELISA Kit

Catalog No: #EK12033



Package Size: #EK12033-1 48T #EK12033-2 96T

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## Description

Product Name	Human Alpha-1-Acid Glycoprotein (A1AGP) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	AGP1; a1-AGP; ORM1; Orosomuroid 1
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:6.25-400 ng/mL

Sensitivity:2.79 ng/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 A1AGP in samples. An antibody specific for A1AGP has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyA1AGP present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for A1AGP 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 A1AGP bound in the initial step. The color development is stopped and the intensity of the color is measured.

**Product Overview:**Alpha-1-acid glycoprotein (AGP) is a simplified name for orosomuroid (ORM). ORM is an acute phase (Acute phase protein) plasma alpha-globulin glycoprotein and is modulated by two polymorphic genes. It is synthesized primarily in hepatocytes and has a normal plasma concentration between 0.6-1.2 mg/mL (1-3% plasma protein).Plasma levels are affected by pregnancy, certain drugs, and certain diseases, particularly HIV. The only established function of ORM is to act as a carrier of basic and neutrally charged lipophilic compounds. In medicine, it is known as the primary carrier of basic drugs (whereas albumin carries acidic drugs), steroids, and protease inhibitors.Orosomuroid increases in amount in obstructive jaundices while diminishes in hepatocellular jaundice and in intestinal infections.

Note: This product is for in vitro research use only