

Human Apelin 36 (AP36) ELISA Kit

Catalog No: #EK11677



Package Size: #EK11677-1 48T #EK11677-2 96T

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Description

Product Name	Human Apelin 36 (AP36) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
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:7.41-600 pg/mL

Sensitivity:2.52 pg/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:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate AP36 in samples. An antibody specific for AP36 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyAP36 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for AP36 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 AP36 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:Apelin gene encodes a pre-proprotein of 77 amino acids,with a signal peptide in the N-terminal region. After translocation into the endoplasmic reticulum and cleavage of the signal peptide, the proprotein of 55 amino acids may generate several active fragments: a 36 amino acid peptide corresponding to the sequence 42-77 (apelin 36), a 17 amino acid peptide corresponding to the sequence 61-77 (apelin 17) and a 13 amino acid peptide corresponding to the sequence 65-77 (apelin 13). This later fragment may also undergo a pyroglutamylation at the level of its N-terminal glutamine residue.Apelin is the endogenous ligand for the G-protein-coupled APJ receptor that is expressed at the surface of some cell types. It is widely expressed in various organs such as the heart, lung, kidney, liver, adipose tissue,gastrointestinal tract, brain, adrenal glands, endothelium, and human plasma.

Note: This product is for in vitro research use only