

Rat Aromatase (ARO) ELISA Kit | ARO elisa kit

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CATALOG #
AAA20647

REACTIVITY
Rat

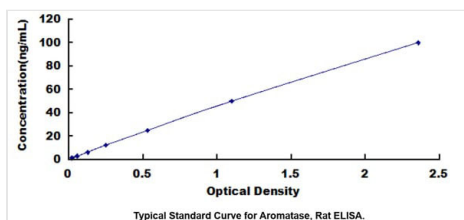
PRODUCT SYNONYMS

Aromatase (ARO); Rat Aromatase (ARO) ELISA Kit; CYP19A1; CYPXIX; ARO; ARO1; CPV1; CYAR; CYP19; P450AROM; P450-AROM; Estrogen synthase; Cytochrome P450; Family 19; Subfamily A; Polypeptide 1; ARO elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of aromatase. No significant cross-reactivity or interference between aromatase and analogues was observed.
Sequence Length	218
Assay Type	Quantitative Sandwich
Samples	Rat serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	1.56-100ng/mL
Sensitivity	< 0.60ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level aromatase 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 aromatase 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 ARO elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to aromatase. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to aromatase. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain aromatase, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm $\pm$ 10nm. The concentration of aromatase in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of aromatase in rat serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Product Categories/Family for ARO elisa kit	Enzyme & Kinase; Tumor immunity; Endocrinology; Hormone metabolism
References	Anticancer effect of metformin against 2-amino-1-methyl-6-phenylimidazo [4,5-b]pyridine-induced rat mammary carcinogenesis is through AMPK pathway and modulation of oxidative stress markers; Hum Exp Toxicol; 2019 Jun;38(6):703-712.; PMID: 30924377; A E El-Sisi; Department of Pharmacology and Toxicology, Faculty of Pharmacy, Tanta University, Tanta, Egypt.

NCBI AND UNIPROT INFORMATION

NCBI GI #	13904860
NCBI GeneID	1588
NCBI Accession #	NP_112503.1
NCBI GenBank Nucleotide #	NM_031226.2
UniProt Accession #	P11511; Q16731; Q3B764; Q58FA0; Q8IYJ7
Molecular Weight	24,518 Da
NCBI Official Full Name	aromatase
NCBI Official Synonym Full Names	cytochrome P450, family 19, subfamily A, polypeptide 1
NCBI Official Symbol	CYP19A1
NCBI Official Synonym Symbols	ARO; ARO1; CPV1; CYAR; CYP19; CYPXIX; P-450AROM
NCBI Protein Information	aromatase
UniProt Protein Name	Aromatase
UniProt Gene Name	CYP19A1
UniProt Synonym Gene Names	ARO1; CYAR; CYP19
UniProt Entry Name	CP19A_HUMAN

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://www.aaabiotech.com/rat-elisa-kits/aromatase-aro/20647>