

Human Cytochrome P450 17A1 (CYP17A1) ELISA Kit | CYP17A1 elisa kit

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CATALOG #
AAA189772

REACTIVITY
Human

PRODUCT SYNONYMS

Cytochrome P450 17A1 (CYP17A1); Human Cytochrome P450 17A1 (CYP17A1) ELISA Kit; S17aH; CPT7; P450C17; 17-Alpha-Hydroxylase; 17-alpha-hydroxyprogesterone aldolase/17; 20-Lyase; Steroid 17-alpha-monooxygenase; Cytochrome P450; Family 17; Subfamily A; Polypeptide 1; CYP17A1/Cytochrome P450 17A1; CYP17A1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Reactive with Human CYP17A1/Cytochrome P450 17A1 This assay has high sensitivity and excellent specificity for detection of Cytochrome P450 17A1 (CYP17A1). No significant cross-reactivity or interference between Cytochrome P450 17A1 (CYP17A1) and analogues was observed.
Assay Type	Sandwich
Detection Range	0.156-10ng/mL
Sensitivity	0.054ng/mL
Detection Character	Regular detection
Assay Time	3h
Sample Size	100ul
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Cytochrome P450 17A1 (CYP17A1) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Cytochrome P450 17A1 (CYP17A1) 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 100uL standard or sample to each well. Incubate 2 hours at 37 degree C 3. Aspirate and add 100uL prepared Detection Reagent A. Incubate 1 hour at 37 degree C 4. Aspirate and wash 3 times 5. Add 100uL prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 6. Aspirate and wash 5 times 7. Add 90uL Substrate Solution. Incubate 10-20 minutes at 37 degree C 8. Add 50uL Stop Solution. Read at 450nm immediately.
Test Principle	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Cytochrome P450 17A1 (CYP17A1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Cytochrome P450 17A1 (CYP17A1). 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 Cytochrome P450 17A1 (CYP17A1), 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 ± 10nm. The concentration of Cytochrome P450 17A1 (CYP17A1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.

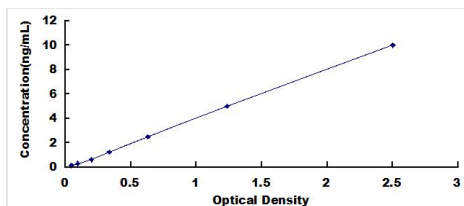
Preparation and Storage

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

Shelf Life: 8 months

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

Product Categories/Family for CYP17A1 elisa kit

Enzyme & Kinase; Metabolic pathway; Endocrinology; Cardiovascular biology; Hepatology; Gastroenterology; Nutrition metabolism

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503195
NCBI GeneID	1586
NCBI Accession #	NP_000093.1
NCBI GenBank Nucleotide #	NM_000102.3
UniProt Accession #	P05093; Q5TZV7
Molecular Weight	57,371 Da
NCBI Official Full Name	steroid 17-alpha-hydroxylase/17,20 lyase
NCBI Official Synonym Full Names	cytochrome P450, family 17, subfamily A, polypeptide 1
NCBI Official Symbol	CYP17A1
NCBI Official Synonym Symbols	CPT7; CYP17; S17AH; P450C17
NCBI Protein Information	steroid 17-alpha-hydroxylase/17,20 lyase; CYPXVII; cytochrome P450c17; cytochrome P450-C17; cytochrome P450 17A1; cytochrome p450 XVIIA1; steroid 17-alpha-monooxygenase; 17-alpha-hydroxyprogesterone aldolase; cytochrome P450, subfamily XVII (steroid 17-al
UniProt Protein Name	Steroid 17-alpha-hydroxylase/17,20 lyase
UniProt Gene Name	CYP17A1
UniProt Synonym Gene Names	CYP17; S17AH; Cytochrome P450c17
UniProt Entry Name	CP17A_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://stage.aaabiotech.com/human-elisa-kits/cytochrome-p450-17a1-cyp17a1/189772>