

Human Lanosterol 14 Alpha demethylase (CYP51A1) ELISA Kit | CYP51A1 elisa kit

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CATALOG #
AAA245217

REACTIVITY
Human

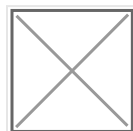
PRODUCT SYNONYMS

Lanosterol 14 Alpha demethylase (CYP51A1); Human Lanosterol 14 Alpha demethylase (CYP51A1) ELISA Kit; CYP51A1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of CYP51A1. No significant cross-reactivity or interference between CYP51A1 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between CYP51A1 and all the analogues, therefore, cross reaction may still exist in some cases.
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Competitive
Sensitivity	1.0 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CYP51A1 elisa kit

Intended Uses: This CYP51A1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human CYP51A1. This ELISA kit for research use only, not for therapeutic or test applications!

Principle of the Assay: CYP51A1 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-CYP51A1 antibody and an CYP51A1-HRP conjugate. The assay sample and buffer are incubated together with CYP51A1-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the CYP51A1 concentration since CYP51A1 from samples and CYP51A1-HRP conjugate compete for the anti-CYP51A1 antibody binding site. Since the number of sites is limited, as more sites are occupied by CYP51A1 from the sample, fewer sites are left to bind CYP51A1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CYP51A1 concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #

225903399

NCBI GeneID	1595
NCBI Accession #	NP_001139624.1
NCBI GenBank Nucleotide #	NM_001146152.1
Molecular Weight	46,312 Da
NCBI Official Full Name	lanosterol 14-alpha demethylase isoform 2
NCBI Official Synonym Full Names	cytochrome P450, family 51, subfamily A, polypeptide 1
NCBI Official Symbol	CYP51A1
NCBI Official Synonym Symbols	LDM; CP51; CYP51; CYPL1; P450L1; P450-14DM
NCBI Protein Information	lanosterol 14-alpha demethylase; CYPLI; cytochrome P450LI; cytochrome P45014DM; cytochrome P450 51A1; cytochrome P450-14DM; lanosterol 14-alpha-demethylase; cytochrome P450, 51 (lanosterol 14-alpha-demethylase)
UniProt Protein Name	Lanosterol 14-alpha demethylase
UniProt Gene Name	CYP51A1
UniProt Synonym Gene Names	CYP51; LDM; Cytochrome P45014DM
UniProt Entry Name	CP51A_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/lanosterol-14-alpha-demethylase-cyp51a1/245217>