

Rat Cytochrome P450 7A1 ELISA Kit | CYP7A1 elisa kit

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CATALOG #
AAA16641

REACTIVITY
Rat

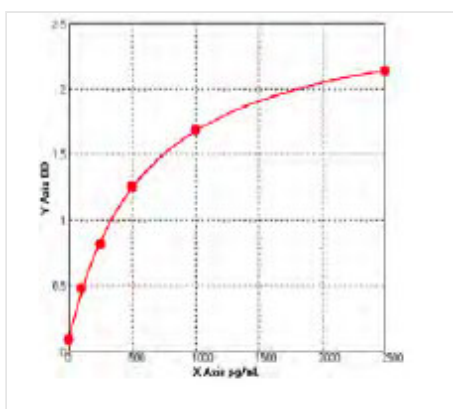
PRODUCT SYNONYMS

Cytochrome P450 7A1; Rat Cytochrome P450 7A1 ELISA Kit; CYP7A1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Sandwich
Sensitivity	1.0 pg/mL.
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CYP7A1 elisa kit

Intended Uses: This CYP7A1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat CYP7A1. This ELISA kit for research use only!

Principle of the Assay: CYP7A1 ELISA kit applies the quantitative sandwich enzyme immunoassay technique. The microtiter plate has been pre-coated with a monoclonal antibody specific for CYP7A1. Standards or samples are then added to the microtiter plate wells and CYP7A1 if present, will bind to the antibody pre-coated wells. In order to quantitatively determine the amount of CYP7A1 present in the sample, a standardized preparation of horseradish peroxidase (HRP)-conjugated polyclonal antibody, specific for CYP7A1 are added to each well to "sandwich" the CYP7A1 immobilized on the plate. The microtiter plate undergoes incubation, and then the wells are thoroughly washed to remove all unbound components. Next, substrate solutions are added to each well. The enzyme (HRP) and substrate are allowed to react over a short incubation period. Only those wells that contain CYP7A1 and enzyme-conjugated antibody will exhibit a change in color. The enzyme-substrate reaction is terminated by addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CYP7A1 concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	119607217
NCBI GeneID	1581
Molecular Weight	57,661 Da
NCBI Official Full Name	cytochrome P450, family 7, subfamily A, polypeptide 1
NCBI Official Synonym Full Names	cytochrome P450, family 7, subfamily A, polypeptide 1
NCBI Official Symbol	CYP7A1
NCBI Official Synonym Symbols	CP7A; CYP7; CYPVII
NCBI Protein Information	cholesterol 7-alpha-monooxygenase; cytochrome P450 7A1; cholesterol 7-alpha-hydroxylase; cytochrome P450, subfamily VIIA polypeptide 1
UniProt Protein Name	Cholesterol 7-alpha-monooxygenase
UniProt Gene Name	CYP7A1
UniProt Synonym Gene Names	CYP7
UniProt Entry Name	CP7A1_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/cyp7a1-rat-elisa-kits/cytochrome-p450-7a1/16641>