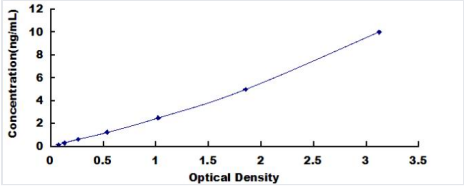
Cytochrome P450 11b1 (CYP11B1) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cytochrome P450 11B1 (CYP11B1), ELISA Kit
Full Product Name	Human Cytochrome P450 11B1 (CYP11B1) ELISA Kit
Product Gene Name	CYP11B1 elisa kit
Product Synonym Names	CPN1; CYP11B; FHI; CYPXIB1; S11BH; 11-Beta-Hydroxylase; Cytochrome P450 Family 11 Subfamily B Polypeptide 1; Steroid 11-beta-hydroxylase; Cytochrome P-450c11
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, Plasma, Tissue Homogenates or Other Biological Fluids.
Detection Range	0.156-10ng/mL
Sensitivity	0.074ng/mL
Preparation and Storage	For unopened kits: All the reagents should be kept at 4 degree C upon receipt. For opened kits: Once the kit is opened, the remaining reagents still need to be stored according to the above storage conditions. In addition, return the unused wells to the foil pouch containing the desiccant pack and reseal along entire edge of zip-seal.
Molecular Weight	49,750 Da
OMIM	103900
3D Structure	ModBase 3D Structure for P15538
RTU ELISA Kit's Advantage	The Ready-To-Use (RTU) Kits require fewer steps in setup and take less time to run. Detection Solutions are pre-diluted and total incubation time is shorter than many other ELISA Kits.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CYP11B1 elisa kit	Test Principle: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CYP11B1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to CYP11B1. 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 CYP11B1, 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 CYP11B1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of CYP11B1 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CYP11B1 purchase	MBS458726 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cytochrome P450 11B1 (CYP11B1) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing CYP11B1. The ELISA analytical biochemical technique of the MBS458726 kit is based on CYP11B1 antibody-CYP11B1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CYP11B1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CYP11B1. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of CYP11B1 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CYP11B1. It may not necessarily be applicable to this product.

NCBI GI #	61743918
NCBI GeneID	1584
NCBI Accession #	NP_000488.3
UniProt Primary Accession #	P15538
UniProt Secondary Accession #	Q14095; Q4VAQ8; Q4VAQ9; Q9UML2
UniProt Related Accession #	P15538
GenBank Nucleotide #	NM_000497.3
NCBI Official Full Name	cytochrome P450 11B1, mitochondrial isoform 1
NCBI Official Synonym Full Names	cytochrome P450 family 11 subfamily B member 1
NCBI Official Symbol	CYP11B1
NCBI Official Synonym Symbols	FHI; CPN1; CYP11B; P450C11
UniProt Protein Name	Cytochrome P450 11B1, mitochondrial
UniProt Synonym Protein Names	CYPXIB1; Cytochrome P-450c11; Cytochrome P450C11; Steroid 11-beta-hydroxylase (EC:1.14.15.4)
Protein Family	Cytochrome
UniProt Gene Name	CYP11B1
UniProt Synonym Gene Names	S11BH; Cytochrome P450C11
NCBI Protein Information	cytochrome P450 11B1, mitochondrial
NCBI Summary for CYP11B1	This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the mitochondrial inner membrane and is involved in the conversion of progesterone to cortisol in the adrenal cortex. Mutations in this gene cause congenital adrenal hyperplasia due to 11-beta-hydroxylase deficiency. Transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for CYP11B1	Has steroid 11-beta-hydroxylase activity. In addition to this activity, the 18 or 19-hydroxylation of steroids and the aromatization of androstendione to estrone have also been ascribed to cytochrome P450 XIB.
Research Articles on CYP11B1	**1.** we report clinical, genetic, hormonal, and structural effects of CYP11B1 gene mutations in the largest international cohort of 108 patients with steroid 11b-hydroxylase deficiency CAH.
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