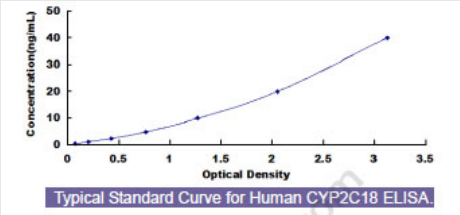
Cytochrome P450 2c18 (CYP2C18) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cytochrome P450 2C18 (CYP2C18), ELISA Kit
Full Product Name	Human Cytochrome P450 2C18 (CYP2C18) ELISA Kit
Product Gene Name	CYP2C18 elisa kit
Product Synonym Names	CYP2C; CPCI; CYP2C17; CPCJ; P450C2C; limonene 6-monooxygenase; Mephenytoin 4-hydroxylase; Cytochrome P450 Family 2 Subfamily C Polypeptide 18
Species Reactivity	Human
Assay Type	Sandwich
Samples	Tissue homogenates, cell lysates and other biological fluids.
Detection Range	0.625-40ng/mL
Sensitivity	0.247ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of CYP2C18. No significant cross-reactivity or interference between CYP2C18 and analogues was observed.
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level CYP2C18 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level CYP2C18 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Molecular Weight	48,805 Da
OMIM	M61853 mRNA
3D Structure	ModBase 3D Structure for P33260
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CYP2C18 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of CYP2C18 in human tissue homogenates, cell lysates and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CYP2C18. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to CYP2C18. 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 CYP2C18, 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 CYP2C18 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of CYP2C18 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 CYP2C18 purchase	MBS456051 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cytochrome P450 2C18 (CYP2C18) 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 CYP2C18. The ELISA analytical biochemical technique of the MBS456051 kit is based on CYP2C18 antibody-CYP2C18 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CYP2C18 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CYP2C18. 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 CYP2C18 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CYP2C18. It may not necessarily be applicable to this product.

NCBI GI #	13699816
NCBI GeneID	1562
NCBI Accession #	NP_000763.1
UniProt Primary Accession #	P33260
UniProt Secondary Accession #	Q16703; Q16751; Q4VAT5; Q6GRG1; B2R8K2
UniProt Related Accession #	P33260
GenBank Nucleotide #	NM_000772.2
NCBI Official Full Name	cytochrome P450 2C18 isoform 1
NCBI Official Synonym Full Names	cytochrome P450 family 2 subfamily C member 18
NCBI Official Symbol	CYP2C18
NCBI Official Synonym Symbols	CPCI; CYP2C; CYP2C17; P450IIC17; P450-6B/29C
UniProt Protein Name	Cytochrome P450 2C18
UniProt Synonym Protein Names	CYPIIC18; Cytochrome P450-6b/29c
Protein Family	Cytochrome
UniProt Gene Name	CYP2C18
NCBI Protein Information	cytochrome P450 2C18
NCBI Summary for CYP2C18	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 endoplasmic reticulum but its specific substrate has not yet been determined. The gene is located within a cluster of cytochrome P450 genes on chromosome 10q24. An additional gene, CYP2C17, was once thought to exist; however, CYP2C17 is now considered an artefact based on a chimera of CYP2C18 and CYP2C19. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for CYP2C18	Cytochromes P450 are a group of heme-thiolate monooxygenases. In liver microsomes, this enzyme is involved in an NADPH-dependent electron transport pathway. It oxidizes a variety of structurally unrelated compounds, including steroids, fatty acids, and xenobiotics.

Research Articles on CYP2C18	**1.** These results suggest that there is no notable influence of sequence variation in the CYP2C genes on longevity in the examined German population
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