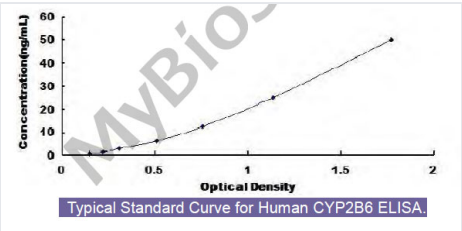
Cytochrome P450 2b6 (CYP2B6) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cytochrome P450 2B6 (CYP2B6), ELISA Kit
Full Product Name	Human Cytochrome P450 2B6 (CYP2B6) ELISA Kit
Product Gene Name	CYP2B6 elisa kit
Product Synonym Names	P1NP; N-Propeptide Of Type I Procollagen; Procollagen I Amino Terminal Propeptide
Species Reactivity	Human
Assay Type	Quantitative Sandwich
Samples	Human tissue homogenates, cell lysates or other biological fluids
Detection Range	0.781-50ng/mL
Sensitivity	< 0.31ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of CYP2B6. No significant cross-reactivity or interference between CYP2B6 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 CYP2B6 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 CYP2B6 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Molecular Weight	33,385 Da
OMIM	M29874 mRNA
3D Structure	ModBase 3D Structure for P20813
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CYP2B6 elisa kit	Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CYP2B6. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to CYP2B6. 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 CYP2B6, 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 CYP2B6 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of CYP2B6 in human tissue homogenates, cell lysates or other biological fluids.
Other Notes	Small volumes of CYP2B6 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 CYP2B6 purchase	MBS456049 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cytochrome P450 2B6 (CYP2B6) 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 CYP2B6. The ELISA analytical biochemical technique of the MBS456049 kit is based on CYP2B6 antibody-CYP2B6 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CYP2B6 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CYP2B6. 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 CYP2B6 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CYP2B6. It may not necessarily be applicable to this product.

NCBI GI #	7949031
NCBI GeneID	1555
NCBI Accession #	NP_000758.1
UniProt Primary Accession #	P20813
UniProt Secondary Accession #	Q2V565; Q9UK46; B4DWP3
UniProt Related Accession #	P20813
GenBank Nucleotide #	NM_000767.4
NCBI Official Full Name	cytochrome P450 2B6
NCBI Official Synonym Full Names	cytochrome P450 family 2 subfamily B member 6
NCBI Official Symbol	CYP2B6
NCBI Official Synonym Symbols	CPB6; EFVM; IIB1; P450; CYP2B; CYP2B7; CYP2B7P; CYPIIB6
UniProt Protein Name	Cytochrome P450 2B6
UniProt Synonym Protein Names	1,4-cineole 2-exo-monooxygenase; CYPIIB6; Cytochrome P450 IIB1
Protein Family	Cytochrome
UniProt Gene Name	CYP2B6
NCBI Protein Information	cytochrome P450 2B6
NCBI Summary for CYP2B6	This gene, CYP2B6, 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 and its expression is induced by phenobarbital. The enzyme is known to metabolize some xenobiotics, such as the anti-cancer drugs cyclophosphamide and ifosphamide. Transcript variants for this gene have been described; however, it has not been resolved whether these transcripts are in fact produced by this gene or by a closely related pseudogene, CYP2B7. Both the gene and the pseudogene are located in the middle of a CYP2A pseudogene found in a large cluster of cytochrome P450 genes from the CYP2A, CYP2B and CYP2F subfamilies on chromosome 19q. [provided by RefSeq, Jul 2008]

UniProt Comments for CYP2B6	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. Acts as a 1,4-cineole 2-exo-monooxygenase.
Research Articles on CYP2B6	**1.** CYP2B6*6 and *9 variant alleles had a significant decreasing effect on sertraline metabolism in major depression patients.
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