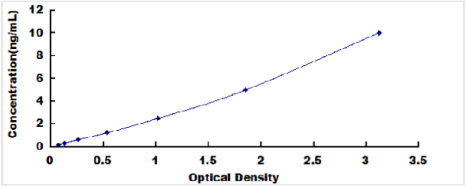
Cytochrome P450 27b1 (CYP27B1) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	Cytochrome P450 27B1 (CYP27B1), ELISA Kit
Full Product Name	Mouse Cytochrome P450 27B1 (CYP27B1) ELISA Kit
Product Gene Name	CYP27B1 elisa kit
Product Synonym Names	VDD1, PDDR; CYP1, P450c1; 25-Hydroxyvitamin D3 1-Alpha-Hydroxylase; Cytochrome P450 Family 27 Subfamily B Polypeptide 1; Calcidiol 1-monooxygenase; VD3 1A hydroxylase
Species Reactivity	Mouse
Assay Type	Sandwich
Samples	Tissue homogenates, cell lysates and other biological fluids.
Detection Range	0.625-40ng/mL
Sensitivity	0.214ng/mL
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.
Molecular Weight	56,225 Da
3D Structure	ModBase 3D Structure for O35084
Intra Assay	CV<10%
Inter Assay	CV<12%
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CYP27B1 elisa kit	MBS451237 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cytochrome P450 27B1 (CYP27B1) 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 CYP27B1. The ELISA analytical biochemical technique of the MBS451237 kit is based on CYP27B1 antibody-CYP27B1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CYP27B1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CYP27B1. 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(%).
Other Notes	Small volumes of CYP27B1 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.



Typical Testing Data/Standard Curve (for reference only) of CYP27B1 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CYP27B1. It may not necessarily be applicable to this product.

NCBI GI #	227497562

NCBI GeneID	13115
NCBI Accession #	NP_034139.2
UniProt Primary Accession #	O35084
UniProt Related Accession #	O35084
GenBank Nucleotide #	NM_010009.2
NCBI Official Full Name	25-hydroxyvitamin D-1 alpha hydroxylase, mitochondrial
NCBI Official Synonym Full Names	cytochrome P450, family 27, subfamily b, polypeptide 1
NCBI Official Symbol	Cyp27b1
NCBI Official Synonym Symbols	Vdr; Cp2b; Cyp1; Pddr; Vdd1; Vddr; Cyp40; VddrI; Cyp27b; P450c1
UniProt Protein Name	25-hydroxyvitamin D-1 alpha hydroxylase, mitochondrial
UniProt Synonym Protein Names	25-OHD-1 alpha-hydroxylase; 25-hydroxyvitamin D(3) 1-alpha-hydroxylase; VD3 1A hydroxylase; Calcidiol 1-monooxygenase; Cytochrome P450 subfamily XXVIIB polypeptide 1; Cytochrome P450C1 alpha; Cytochrome P450VD1-alpha; Cytochrome p450 27B1
Protein Family	25-hydroxyvitamin D-1 alpha hydroxylase
UniProt Gene Name	Cyp27b1
UniProt Synonym Gene Names	Cyp27b; Cyp40; VD3 1A hydroxylase
NCBI Protein Information	25-hydroxyvitamin D-1 alpha hydroxylase, mitochondrial
UniProt Comments for CYP27B1	Catalyzes the conversion of 25-hydroxyvitamin D3 (25(OH)D3) to 1-alpha,25-dihydroxyvitamin D3 (1alpha,25(OH)2D3), and of 24,25-dihydroxyvitamin D3 (24,25(OH)2D3) to 1-alpha,24,25-trihydroxyvitamin D3 (1alpha,24,25(OH)3D3). Is also active with 25-hydroxy-24-oxo-vitamin D3. Plays an important role in normal bone growth, calcium metabolism, and tissue differentiation.
Research Articles on CYP27B1	**1.** P450C1 alpha deficiency results in abnormal calcium handling and cardiac dysfunction in mice with defective vitamin D signaling.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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