Cyclophosphamide (CTX) ELISA Kit for Goat

PRODUCT OVERVIEW

Product Name	Cyclophosphamide (CTX), ELISA Kit
Full Product Name	Goat Cyclophosphamide ELISA Kit
Product Gene Name	CTX elisa kit
Species Reactivity	Goat
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	56,278 Da
OMIM	123930
3D Structure	ModBase 3D Structure for P20813
Related Product Information for CTX elisa kit	MBS019029 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cyclophosphamide (CTX) 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 CTX. The ELISA analytical biochemical technique of the MBS019029 kit is based on CTX antibody-CTX antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CTX antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CTX. 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 CTX 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CTX. 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
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, polypeptide 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

UniProt Gene Name	CYP2B6
UniProt Entry Name	CP2B6_HUMAN
NCBI Protein Information	cytochrome P450 2B6; cytochrome P450 IIB1; 1,4-cineole 2-exo-monooxygenase; cytochrome P450, subfamily IIB (phenobarbital-inducible), polypeptide 6
NCBI Summary for CTX	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 CTX	CYP2B6: cytochrome P450, subfamily IIB. 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. Phosphorylation is accompanied by a decrease in enzyme activity. Protein type: EC 1.14.14.1; Xenobiotic Metabolism - metabolism by cytochrome P450; Xenobiotic Metabolism - drug metabolism - cytochrome P450; Oxidoreductase; Cofactor and Vitamin Metabolism - retinol; Lipid Metabolism - arachidonic acid Chromosomal Location of Human Ortholog: 19q13.2 Cellular Component: endoplasmic reticulum membrane; intracellular membrane-bound organelle; cytoplasm Molecular Function: iron ion binding; heme binding; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, reduced flavin or flavoprotein as one donor, and incorporation of one atom of oxygen; arachidonic acid epoxygenase activity; steroid hydroxylase activity; oxygen binding; monooxygenase activity Biological Process: steroid metabolic process; ketone metabolic process; xenobiotic metabolic process; exogenous drug catabolic process; epoxygenase P450 pathway; drug metabolic process Disease: Efavirenz, Poor Metabolism Of
Research Articles on CTX	**1.** CYP2B6 gene polymorphism G15631T has an effect on imatinib response in Moroccan chronic myeloid leukemia patients
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