Plasminogen (PLG) ELISA Kit for Cat

PRODUCT OVERVIEW

Product Name	Plasminogen (PLG), ELISA Kit
Full Product Name	Cat Plasminogen ELISA Kit
Product Gene Name	PLG elisa kit
Species Reactivity	Cat
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	90,569 Da
Chromosome Location	Chromosome: 6; NC_000006.11 (161123225..161175086). Location: 6q26
OMIM	173350
3D Structure	ModBase 3D Structure for P00747
Related Product Information for PLG elisa kit	MBS073641 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Plasminogen (PLG) 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 PLG. The ELISA analytical biochemical technique of the MBS073641 kit is based on PLG antibody-PLG antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect PLG antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, PLG. 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 PLG 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 PLG. It may not necessarily be applicable to this product.

NCBI GI #	190026
NCBI GeneID	5340
NCBI Accession #	AAA36451.1
UniProt Primary Accession #	P00747
UniProt Secondary Accession #	Q15146; Q5TEH4; Q6PA00
UniProt Related Accession #	P00747
NCBI Official Full Name	plasminogen
NCBI Official Synonym Full Names	plasminogen
NCBI Official Symbol	PLG
UniProt Protein Name	Plasminogen
Protein Family	Plasminogen
UniProt Gene Name	PLG
UniProt Entry Name	PLMN_HUMAN

NCBI Protein Information	plasminogen
NCBI Summary for PLG	The protein encoded by this gene is a secreted blood zymogen that is activated by proteolysis and converted to plasmin and angiostatin. Plasmin dissolves fibrin in blood clots and is an important protease in many other cellular processes while angiostatin inhibits angiogenesis. Defects in this gene are likely a cause of thrombophilia and ligneous conjunctivitis. Two transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Dec 2009]
UniProt Comments for PLG	Plasminogen: Plasmin dissolves the fibrin of blood clots and acts as a proteolytic factor in a variety of other processes including embryonic development, tissue remodeling, tumor invasion, and inflammation. In ovulation, weakens the walls of the Graafian follicle. It activates the urokinase-type plasminogen activator, collagenases and several complement zymogens, such as C1 and C5. Cleavage of fibronectin and laminin leads to cell detachment and apoptosis. Also cleaves fibrin, thrombospondin and von Willebrand factor. Its role in tissue remodeling and tumor invasion may be modulated by CSPG4. Binds to cells. Defects in PLG are the cause of plasminogen deficiency (PLGD). PLGD is characterized by decreased serum plasminogen activity. Two forms of the disorder are distinguished: type 1 deficiency is additionally characterized by decreased plasminogen antigen levels and clinical symptoms, whereas type 2 deficiency, also known as dysplasminogenemia, is characterized by normal, or slightly reduced antigen levels, and absence of clinical manifestations. Plasminogen deficiency type 1 results in markedly impaired extracellular fibrinolysis and chronic mucosal pseudomembranous lesions due to subepithelial fibrin deposition and inflammation. The most common clinical manifestation of type 1 deficiency is ligneous conjunctivitis in which pseudomembranes formation on the palpebral surfaces of the eye progresses to white, yellow-white, or red thick masses with a wood-like consistency that replace the normal mucosa. Belongs to the peptidase S1 family. Plasminogen subfamily. Protein type: Motility/polarity/chemotaxis; Secreted; Protease; EC 3.4.21.7; Secreted, signal peptide Chromosomal Location of Human Ortholog: 6q26 Cellular Component: extracellular space; extrinsic to external side of plasma membrane; cell surface; plasma membrane; extracellular region Molecular Function: protein domain specific binding; protein binding; serine-type peptidase activity; serine-type endopeptidase activity; apolipoprotein binding; receptor binding Biological Process: platelet activation; extracellular matrix organization and biogenesis; tissue remodeling; myoblast differentiation; muscle maintenance; negative regulation of cell proliferation; extracellular matrix disassembly; fibrinolysis; negative regulation of fibrinolysis; cellular protein metabolic process; platelet degranulation; proteolysis involved in cellular protein catabolic process; tissue regeneration; positive regulation of fibrinolysis; blood coagulation; transmembrane transport Disease: Plasminogen Deficiency, Type I
Research Articles on PLG	**1.** Letter: Plasmin and the thrombin-thrombomodulin complex both contribute to thrombin-activatable fibrinolysis inhibitor activation in whole blood model thrombi.
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