

Active Native Mouse glu-Plasminogen

Cat. No. Plg-291M **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Mouse

Source Plasma

Description

Plasminogen is a single chain glycoprotein zymogen which is synthesized in the liver and circulates in plasma at a concentration of approximately 2.4 μ M. The plasminogen molecule contains 790 amino acids, 24 disulfide bridges, no free sulfhydryls and 5 regions of internal sequence homology, known as kringles, between Lys77 and Arg560. These five triple-looped, three disulfide bridged, kringle regions are homologous to the kringle domains in t-PA, u-PA and prothrombin. Plasminogen contains one high affinity ($K_d=9 \times 10^{-6}$ M) and four low affinity ($K_d=5 \times 10^{-3}$ M) lysine binding sites. The high affinity binding site resides within the first kringle region of plasminogen. The interaction of plasminogen with fibrin and α_2 -antiplasmin is mediated by these lysine binding sites. Native glu-plasminogen ($M_r=88,000$) is readily converted to Lys-77-plasminogen ($M_r=83,000$) by plasmin hydrolysis of the Lys76-Lys77 peptide bond. Elastase catalyzed cleavage of the Val441-Val442 peptide bond of glu-plasminogen yields a functionally active zymogen termed Val-442 plasminogen or mini-plasminogen.

Form 50% (vol/vol) glycerol/H₂O

Bio-activity < 10="" ppm="" plasmin="" activity="" for="">

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Molecular Mass	88000
Purity	>95% by SDS-PAGE. NOT tissue/cell culture grade. Not tested for endotoxin.
Characteristic	Extinction coefficient:17.0, Isoelectric point:6.2, Structure: single chain, 24 intra chain disulfide bridges, 5 kringle regions.
Storage	-20°C
GENE INFORMATION	
Gene Name	Plg plasminogen [<i>Mus musculus</i>]
Official Symbol	Plg
Synonyms	Pg; A1649309; plasminogen; angiostatin; plasmin heavy chain A; plasmin light chain B
Gene ID	18815
mRNA Refseq	NM_008877
Protein Refseq	NP_032903
UniProt ID	P20918
Chromosome Location	17 A1; 17 8.5 cM
Pathway	Activation of Matrix Metalloproteinases, organism-specific biosystem; Blood Clotting Cascade, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem

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Function

apolipoprotein binding; endopeptidase activity; protein domain specific binding

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