

# Active Recombinant Canine SERPINE1

**Cat. No.** SERPINE1-89C    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Glycosylated dog PAI-1 produced in insect cells with a single conservative mutation (Isoleucine 91 to Leucine) to increase stability.
<b>Species</b>	Canine
<b>Source</b>	Insect Cells
<b>Description</b>	PAI-1 is a serine protease inhibitor (serpin) that functions as the principal inhibitor of tissue plasminogen activator (tPA) and urokinase (uPA), the activators of plasminogen and hence fibrinolysis (the physiological breakdown of blood clots). It is a serine protease inhibitor (serpin) protein (SERPINE1). The other PAI, plasminogen activator inhibitor-2 (PAI-2) is secreted by the placenta and only present in significant amounts during pregnancy. In addition, protease nexin acts as an inhibitor of tPA and urokinase. PAI-1, however, is the main inhibitor of the plasminogen activators.
<b>Form</b>	Frozen liquid
<b>Bio-activity</b>	>95% active by uPA titration and SDS-PAGE
<b>Molecular Mass</b>	46000
<b>Purity</b>	>95% by SDS-PAGE analysis
<b>Storage</b>	Store at -70°C. Avoid repeated freeze-thaw cycles.

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**Concentration** 1.0 mg/ml

**Storage Buffer** 0.05M Sodium Acetate; 0.1M NaCl; 1mM EDTA; pH 5.0.

## GENE INFORMATION

**Gene Name** SERPINE1 serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1 [ *Canis lupus familiaris* (dog) ]

**Official Symbol** SERPINE1

**Synonyms** SERPINE1; PAI-1; serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1; plasminogen activator inhibitor 1; plasminogen activator inhibitor type 1

**Gene ID** 403476

**mRNA Refseq** NM\_001197095

**Protein Refseq** NP\_001184024

**Chromosome Location** 6

**Pathway** BMAL1:CLOCK,NPAS2 activates circadian gene expression; Chagas disease (American trypanosomiasis); HIF-1 signaling pathway

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