

Active Recombinant Canine SERPINE1

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

SPECIFICATION

Product Overview	Glycosylated dog PAI-1 produced in insect cells with a single conservative mutation (Isoleucine 91 to Leucine) to increase stability.
Species	Canine
Source	Insect Cells
Description	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.
Form	Frozen liquid
Bio-activity	>95% active by uPA titration and SDS-PAGE
Molecular Mass	46000
Purity	>95% by SDS-PAGE analysis
Storage	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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