9051 Mira Mesa Blvd, #910094
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SERPINE1 Human

Plasminogen Activator Inhibitor-1 Human Recombinant
RCP2054

Product Overview

Name	SERPINE1 Human
Description	
Plasminogen Activator Inhibitor-1 Human Recombinant	
Accession (Primary)	P05121
Synonyms	
PAI-1, PAI1, PLANH1, SERPINE1, PAIE, PLASMINOGEN ACTIVATOR INHIBITOR, BETA-MIGRATING ENDOTHELIAL-CELL-DERIVED TYPE.	
Introduction	
Plasminogen activator inhibitor-1 is the principal inhibitor of tissue plasminogen activator(tPA) and uPA, the activators of plasminogenand 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 placentaand only present in significant amounts during pregnancy. In addition, protease nexinacts as an inhibitor of tPA. SERPINE1, however, is the main inhibitor of the plasminogen activators.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered clear colorless solution.	
Formulation	
50mM NaAc (pH 5.5), 10% glycerol and 0.1M NaCl.	
Stability	
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	
Amino acid sequence	
MGSSHHHHHH SSGLVPRGSH M VHHPPSYVA HLASDFGVRV FQQVAQASKD RNVVFSPYGVASVLAMLQLT TGGETQQQIQ AAMGFKIDDK GMAPALRHLY KELMGPWNKD EISTTDAIFVQRDLKLVQGF MPHFFRLFRS TVKQVDFSEV ERARFIINDW VKTHTKGMIS NLLGKGAVDQLTRLVLVNAL YFNGQWKTPF PDSSTHRRLF	

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HKSDGSTVSV PMMAQTNKFN YTEFTTPDGHYYDILELPYH GDTLSMFIAA PYEKEVPLSA LTNILSAQLI SHWKGNMTRL PRLLVLPKFSLETEVDLRKP LENLGMTDMF RQFQADFTSL SDQEPLHVAQ ALQKVKIEVN ESGTVASSSTAVIVSARMAP EEIIMDRPFL FVVRHNPTGT VLFMGQVMEP.

Biological Activity

The IC50 for this effect is less than 3nM, measured by its ability to inhibit uPA cleavage of the substrate Z-GGRAMC.

Precautions

SERPINE1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P05121)