

# Recombinant human Serpin E1/PAI-1 protein

Catalog Number: PAI0701

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

24-402aa

### UniProt No.

P05121

### NCBI Accession No.

NP\_000593

### Alternative Names

Plasminogen activator inhibitor-1, PLANH1, SERPINE1, PAI1, PLANH1, Plasminogen activator inhibitor-1, Plasminogen activator inhibitor-1

## PRODUCT SPECIFICATION

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### Molecular Weight

45 kDa (400aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 50mM NaAc (pH 5.5) containing 10% glycerol, 0.1M NaCl

### Purity

> 95% by SDS-PAGE

### Biological Activity

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

### Tag

His-Tag

### Application

SDS-PAGE, Enzyme Activity

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Plasminogen activator inhibitor-1 (PAI-1), a member of the serine protease inhibitor (serpin) super family. PAI-1 is the principal inhibitor of tissue plasminogen activator and urokinase, the activators of plasminogen and hence

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fibrinolysis. PAI-1 is mainly produced by the endothelium but is also secreted by other tissue types, such as adipose tissue. Recombinant human PAI-1, fused to His tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MVHHPPSYVA HLASDFGVRV FQVAQASKD RNVVFSPYGV ASVLAMLQLT  
TGGETQQQIQ AAMGFKIDDK GMAPALRHLY KELMGPWNKD EISTTDAIFV QRDLKLVQGF MPHFFRLFRS TVKQVDFSEV  
ERARFIINDW VKTHTKGMIS NLLGKGAVDQ LTRLVLVNAL YFNGQWKTPF PDSSTHRRLF HKSDGSTVSV PMMAQTNKFN  
YTEFTTPDGH YYDILELPYH GDTLSMFIAA PYEKEVPLSA LTNILSAQLI SHWKGNMTRL PRLLVLPKFS LETEVDLRKP  
LENLGMTDMF RQFQADFTSL SDQEPLHVAQ ALQKVKIEVN ESGTVASSST AVIVSARMAP EEIIMDRPFL FVVRHNPTGT  
VLFMGQVMEP

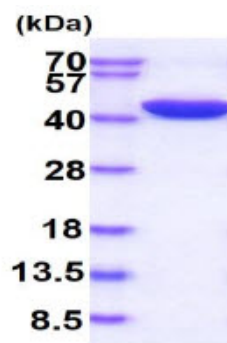
## General References

Gorlatova NV., et al.(2007) *J Biol Chem.* 282(12):9288-96.

Renckens R., et al. (2006) *J Immunol.* 177(11):8171-6.

## DATA

### SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.