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## Recombinant human Serpin E1/PAI-1 protein

Catalog Number: PAI0701

#### PRODUCT INFORMATION

## **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**

## **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**

## **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**

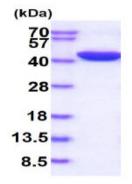
MGSSHHHHHH SSGLVPRGSH MVHHPPSYVA HLASDFGVRV FQQVAQASKD RNVVFSPYGV ASVLAMLQLT TGGETQQQIQ AAMGFKIDDK GMAPALRHLY KELMGPWNKD EISTTDAIFV QRDLKLVQGF MPHFFRLFRS TVKQVDFSEV ERARFIINDW VKTHTKGMIS NLLGKGAVDQ LTRLVLVNAL YFNGQWKTPF PDSSTHRRLF HKSDGSTVSV PMMAQTNKFN YTEFTTPDGH YYDILELPYH GDTLSMFIAA PYEKEVPLSA LTNILSAQLI 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.

