

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

Recombinant human Serpin E1/PAI-1 protein

Catalog Number: PAI0701

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

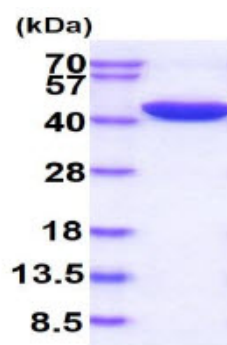
MGSSHHHHHHH SSGLVPRGSH MVHHPPSYVA HLASDFGVRV FQQVAQASKD RNVVFSPYGV ASVLAMLQLT
TGGETQQIQI AAMGFKIDDK GMAPALRHLY KELMGPWNKD EISTTDAIFV QRDCLKVQGF MPHFFRLFRS TVKQVDFSEV
ERARFIINDW VKTHTKGMIS NLLGKGAVDQ LTRLVLVNAL YFNGQWKTPF PDSSTHRRLF HKSDGSTVSV PMMAQTNKFN
YTEFTTPDGH YYDILELPYH GDTLSMFIAA PYEKEVPLSA LTNILSAQLI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