

Recombinant human Protein C Inhibitor/SERPINA5 protein

Catalog Number: ATGP3746

PRODUCT INFORMATION

Expression system

E.coli

Domain

20-406aa

UniProt No.

P05154

NCBI Accession No.

AAH08915

Alternative Names

Serpin peptidase inhibitor, clade A, member 5, PAI3, PCI, PROCI, Plasma serine protease inhibitor, Acrosomal serine protease inhibitor, Plasminogen activator inhibitor 3, Protein C inhibitor, SERPINA5, PLANH3, Serine proteinase inhibitor clade A (alpha-1 antiproteinase, antitrypsin) member 5, Cysteine proteinase inhibitor clade A (alpha-1 antiproteinase, antitrypsin) member 5

PRODUCT SPECIFICATION

Molecular Weight

45.9 kDa (408aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM MES buffer (pH 6.0) containing 150mM NaCl, 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

Biological Activity

Measured by its ability to inhibit Thrombin cleavage of substrate Boc-VPR-AMC. The IC50 for this effect is less or equal to 2 nM

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.

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BACKGROUND

Description

Serpin A5, also known as PCI (Protein C Inhibitor) or PAI3 (plasminogen activator inhibitor 3), is a member of the serpin serine proteinase inhibitor family. This protein inhibits plasminogen activators as well as activated protein C. Serpin A5 is secreted in plasma, but is also expressed in liver. Serpin A5 is involved in cell inflammation, proliferation, apoptosis, tumor cell migration, invasion, and metastasis. Recombinant Serpin A5 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MHRHHPREMK KRVEDLHVGA TVAPSSRRDF TFDLYRALAS AAPSQNIFFS PVSISMSLAM
LSLGAGSSTK MQILEGLGLN LQKSSEKELH RGFQQLQEL NQPRDGFQLS LGNALFTDLV VDLQDTFVSA MKTLYLADTF
PTNFRDSAGA MKQINDYVAK QTKGKIVDLL KNLDSNAVVI MVNYIFFKAK WETSFNHKGT QEQDFYVTSE TVVRVPMMSR
EDQYHYLLDR NLSCRVVGVP YQGNATALFI LPSEGKMQQV ENGLSEKTLR KWLKMFKKRQ LELYLPKFSI EGSYQLEKVL
PSLGISNVFT SHADLSGISN HSNIQVSEMV HKAVVEVDES GTRAAAATGT IFTFRSARLN SQRLVFNRPF LMFIVDNNIL
FLGKVNRP

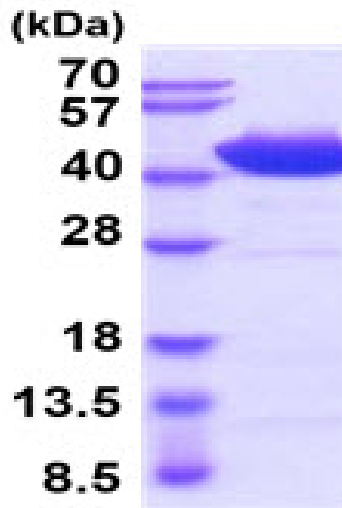
General References

Han MH., et al. (2008) Nature. 451(7182):1076-81.

Li W., et al. (2008) J Biol Chem. 283(51):36039-45.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)