

Product information

Serpin A5, 20-406 aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP3746

Full Name: Serpin peptidase inhibitor, clade A, member 5

NCBI Accession No.: AAH08915

Synonyms: PAI3, PCI, PROC1

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.

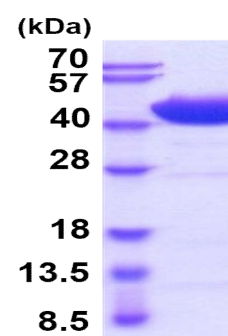
Form: Liquid. In 20 mM MES buffer (pH6.0) containing 150mM NaCl
10% glycerol

Molecular Weight: 45.9 kDa (408aa), confirmed by MALDI-TOF

Purity: > 90% by SDS - PAGE

Concentration: 0.5 mg/ml (determined by Bradford assay)

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



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHH SSGLVPRGSH MHRHHPREMK KRVEDLHVGA TVAPSSRRDF TFDLYRALAS AAPSQNIFFS PVSISMSLAM LSLGAGSSTK
MQILEGLGLN LQKSSEKELH RGFAQLLQEL NQPRDGFQLS LGNALFTDLV VDLQDTFVSA MKTLYLADTF PTNFRDSAGA MKQINDYVAK
QTKGKIVDLL KNLDSNAVVI MVNYIFFKAK WETSFNHKGT QEQDFYVTSE TVVRVPMMSR EDQYHYLLDR NLSCR VVGVP YQGNATALFI
LPSEGKMQQV ENGLSEKTLR KWLKMFKKRQ LELYLPKFSI EGSYQLEKVL PSLGISNVFT SHADLSGISN HSNIQVSEMV HKAVVEVDES
GTRAAATGT 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.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.