

32-13403: SERPINA5 Human, Active

Application : Functional Assay

Alternative Name : Serpin Family A Member 5, Serine (Or Cysteine) Proteinase Inhibitor, Clade A (Alpha-1 Antitrypsin, Antitrypsin), Member 5, Serpin Peptidase Inhibitor, Clade A (Alpha-1 Antitrypsin, Antitrypsin), Member 5, Acrosomal Serine Protease Inhibitor 3 4 Protein C Inhibitor, PLANH3, PAI-3, PROCI, PAI3, PCI, Plasminogen Activator Inhibitor III, Plasminogen Activator Inhibitor-3, Plasminogen Activator Inhibitor 3, Plasma Serine Protease Inhibitor, Serpin A5, PCI-B.

Description

Source: Escherichia Coli.

Sterile Filtered colorless solution.

SERPINA5 up regulates TAFI activation by inhibiting the protein C activation. SERPINA5 is a significant regulator in the equilibrium between coagulation and fibrinolysis by differentially inhibiting the activation of TAFI and of Protein-C. SERPINA5 belongs to the serpin serine proteinase inhibitor family. SERPINA5 protein inhibits plasminogen activators as well as activated protein C. SERPINA5 is secreted in plasma & liver. SERPINA5 is involved in cell inflammation, proliferation, apoptosis, tumour cell migration, invasion, and metastasis. Moreover, SERPINA5 controls the invasive potential of renal cell carcinoma by inhibiting urinary plasminogen activator secreted by the cells. SERPINA5 participates in regulating key serine proteases which are involved in metastatic prostate disease.

SERPINA5 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 408 amino acids (20-406 a.a) and having a molecular mass of 45.9kDa. SERPINA5 is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Product Info

Amount : 1 µg / 5 µg

Purification : Greater than 90.0% as determined by SDS-PAGE.

Content : SERPINA5 protein solution (0.5mg/ml) contains 150mM NaCl, 10% glycerol & 20 mM MES buffer (pH6.0).

Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Amino Acid : MGSSHHHHHH SSGLVPRGSH MHRHHPREMK KRVEDLHVGA TVAPSSRRDF TFDLYRALAS
AAPSQNIFFS PVSISMSLAM LSLGAGSSTK MQILEGLGLN LQKSSEKELH RGFQQLLQEL
NQPRDGFQLS LGNALFTDLV VDLQDTFVSA MKTLYLADTF PTNFRDSAGA MKQINDYVAK
QTKGKIVDLL KNLDSNAVVI MVNYIFFKAK WETSFNHKGT QEQDFYVTSE TVVRVPMMSR
EDQYHYLLDR NLSCRVVGVY YQGNATALFI LPSEGKMQQV ENGLSEKTLR KWLKMFKKRQ
LELYLPKFSI EGSYQLEKVL PSLGISNVFT SHADLSGISN HSNIQVSEMV HKAIVVEVDES
GTRAAAATGT IFTFRSARLN SQRLVFNRPF LMFIVDNNIL FLGKVNRP.

Application Note

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.