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SERPINA5 Human

Catalog #:PRPS-756

For research use only.

Description:SERPINA5 Human Recombinant fused with a 20 amino acid His tag at N-terminus 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 45.9 kDa.The SERPINA5 is purified by proprietary chromatographic techniques.

Synonyms:PAI3, PCI, PROCI, PLANH3, Protein-C Inhibitor, Plasma serine protease inhibitor, Serpin A5, Plasminogen activator inhibitor 3, PAI-3, Acrosomal serine protease inhibitor, SERPINA5.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MHRHHPREMK KRVEDLHVGA TVAPSSRRDF TFDLYRALAS AAPSQNIFFS PVSISMSLAM LSLGAGSSTK MQILEGLGLN LQKSSEKELH RGFQQLLQEL NQPRDGFQLS LGNALFTDLV VDLQDTFVSA MKTLYLADTF PTNFRDSAGA MKQINDYVAK QTKGKIVDLL KNLDSNAVVI MVNYIFFKAK WETSFNHKGT QEQDFYVTSE TV

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

Formulation:
The SERPINA5 solution (0.5mg/ml) contains 20mM Tris-HCl buffer pH-8, 1mM DTT and 10% glycerol.

Stability:
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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
SERPINA5 up regulateS TAFI activation by inhibiting the protein C activation. SERPINA5 is an 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 and liver. SERPINA5 is involved in cell inflammation, proliferation, apoptosis, tumour cell migration, invasion, and metastasis. SERPINA5 controls the invasive potential of renal cell carcinoma by inhibiting urinary plasminogen activator secreted by the cells. SERPINA5 plays a role in regulating key serine proteases involved in metastatic prostate disease. The heparin binding site of SERPINA5 inhibitor is protease-dependent.

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