
Product Data Sheet

Product Name: SERPINA5 Human, Active
 Cat. No.: GP24535
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Serp Family A Member 5; Serine (Or Cysteine) Proteinase Inhibitor; Clade A (Alpha-1 Antiproteinase; Antitrypsin); Member 5; Serpin Peptidase Inhibitor; Clade A (Alpha-1 Antiproteinase; 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.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MHRHHPREMK KRVEDLHVGA TVAPSSRRDF TFDLYRALAS AAPSQNIFFS PVSISMSLAM LSLGAGSSTK MQILEGLGLN LQKSSEKELH RGFQQLLQEL 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.		
Formulation	SERPINA5 protein solution (0.5mg/ml) contains 150mM NaCl, 10% glycerol & 20 mM MES buffer (pH6.0).		

Introduction

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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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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.

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.

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.

Background

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.

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