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Datasheet for ABIN1097511

SERPINA5 Protein (AA 20-406) (His tag)

Overview

Quantity:	50 µg
Target:	SERPINA5
Protein Characteristics:	AA 20-406
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SERPINA5 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Serpin A5/Protein C Inhibitor (C-6His)
Sequence:	HRHHPREMKK RVEDLHVGAT VAPSSRRDFT FDLYRALASA APSQNIFFSP VSISMSLAML SLGAGSSTKM QILEGLGLNL QKSSEKELHR GFQQLQELN QPRDGFQLSL GNALFTDLVV DLQDTFVSAM KTLYLADTFP TNFRDSAGAM KQINDYVAKQ TKGKIVDLLK NLDSNAVVIM VNYIFFKAKW ETSFNHKGQT EQDFYVTSET VVRVPMMSRE DQYHYLLDRN LSCRVVGVPY QGNATALFIL PSEGKMQQVE NGLSEKTLRK WLKMFKKRQL ELYLPKFSIE GSYQLEKVLP SLGISNVFTS HADLSGISNH SNIQVSEMVH KAVVEVDESG TRAAAATGTI FFRSARLNS QRLVFNRPFLL MFIVDNNILF LGKVNRPVDH HHHHH
Characteristics:	Recombinant Human Serpin A5 produced by transfected human cells is a secreted protein with sequence (His20-Pro406) of Human SERPINA5 fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered

Product Details

Endotoxin Level: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test

Target Details

Target: SERPINA5

Alternative Name: protein-c-inhibitor ([SERPINA5 Products](#))

Sub Type: Fusionprotein

Background: Serpin A5 is a member of the human Serpin superfamily consists of at least 35 members. It is synthesized in the liver and has been detected in saliva, cerebral spinal fluid, amniotic fluid, tears and semen. As a potent inhibitor of the protein C anticoagulant pathway at the levels of both zymogen activation and enzyme inhibition, Serpin A5 additionally inhibits a variety of serine protease including thrombin, factor Xa, several kallekreins and acrosin. It plays a critical role in the processes of blood of blood coagulation and fertilization. Serpin A5 also inhibits urinary plasminogen activator (uPA), a mediator of tumor cell invasion, and regulates tumor growth and metastasis by inhibiting angiogenesis. Furthermore, recent studies have identified PCI as a potent and direct inhibitor of activated HGFA (hepatocyte growth factor activator), suggesting a novel function in the regulation of tissue repair and regeneration. Similar to Serpins C1 and D1, the thrombin inhibitory activity of serpinA5 is enhanced by heparin. Alternative Names: Plasma Serine Protease Inhibitor, Acrosomal Serine Protease Inhibitor, Plasminogen Activator Inhibitor 3, PAI-3, PAI3, Protein C Inhibitor, PCI, Serpin A5, SERPINA5, PCI, PLANH3, PROCI

Molecular Weight: 44.7 kDa

UniProt: [P05154](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: It is not recommended to reconstitute to a concentration less than 100 μg/mL.
Dissolve the lyophilized protein in ddH2O.
Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Buffer: Lyophilized from a 0.2 μm filtered solution of 20 mM MES, 150 mM NaCl, pH 5.5.

Handling

Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	3 months