

Datasheet for ABIN5855151

## SERPINC1 Protein (AA 1-546) (His tag)



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### Overview

Quantity:	5 µg
Target:	SERPINC1
Protein Characteristics:	AA 1-546
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This SERPINC1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Enzyme Activity Assay (EAA)

### Product Details

Sequence:	ADPHGSPVDI CTAKPRDIPM NPMCIYRSPE KKATEDEGSE QKIPEATNRR VWELSKANSR FATTFYQHLA DSKNDNDNIF LSPLSISTAF AMTKLGACND TLQQLMEVFK FDTISEKTS QIHFFFAKLN CRLYRKANKS SKLVSANRLF GDKSLTFNET YQDISELVYG AKLQPLDFKE NAEQSRAAIN KWVSNKTEGR ITDVIPSEAI NELTVLVLVN TIYFKGLWKS KFSPENTRKE LFYKADGESG SASMMYQEGK FRYRRVAEGT QVLELPFKGD DITMVLILPK PEKSLAKVEK ELTPEVLQEW LDELEEMMLV VHMPRFRIED GFSLKEQLQD MGLVDLFSPE KSKLPGIVAE GRDDLYVSDA FHKAFLEVNE EGSEAAASTA VVIAGRSLNP NRVTFKANRP FLVFIREVPL NTIIFMGRVA NPCVKHHHHH H
Purity:	> 90% by SDS-PAGE
Endotoxin Level:	< 1 EU per 1ug of protein (determined by LAL method)

## Product Details

**Biological Activity Comment:** Measured by its ability to inhibit Thrombin cleavage of substrate Boc-VPR-AMC. The IC50 for this effect is less or equal to 1nM.

## Target Details

Target:	SERPINC1
Alternative Name:	Serpin C1/Antithrombin-III ( <a href="#">SERPINC1 Products</a> )
Background:	SERPINC1, also known as antithrombin-III, is a member of the Serpin superfamily of the serine protease inhibitors. It is the principal plasma Serpin of blood clotting proteases and inhibits thrombin as well as several factors such as Xa. It is one of the most important coagulation inhibitors and is the basic enzyme for the therapeutic action of heparin. In common with SerpinA5 and D1, the inhibitory activity of SerpinC1 dramatically increases the presence of heparin and other glycosaminoglycans. It mediates the promotion of prostaglandin release, inhibitors of leukocyte activation and down-regulation of many inflammatory cytokines. This protein has anti-inflammatory properties besides anticoagulant. Recombinant human SERPINC1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Molecular Weight:	50.1 kDa (441aa)
NCBI Accession:	<a href="#">NP_000479</a>
UniProt:	<a href="#">P01008</a>

## Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Bioactivity Validated
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Buffer:	Liquid. In Phosphate Buffered Saline ( pH 7.4) containing 10 % glycerol.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -

80°C. Avoid repeated freezing and thawing cycles.