



Human Antithrombin III(AT III)ELISA Kit

Product Code	CSB-E17902h
Abbreviation	SERPINC1
Protein Biological Process 1	Blood Coagulation
Target Name	serpin peptidase inhibitor, clade C (antithrombin), member 1
Uniprot No.	P01008
Alias	AT3, ATIII, MGC22579, antithrombin III serine (or cysteine) proteinase inhibitor, clade C (antithrombin), member 1 serine-cysteine proteinase inhibitor clade C member 1 serpin peptidase inhibitor, c
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Blood coagulation
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.82 ng/mL-600 ng/mL
Sensitivity	0.82 ng/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Cardiovascular
Gene Names	SERPINC1
Tag Info	quantitative
Protein Description	Sandwich

Description

The human Antithrombin III (AT III) ELISA kit is suitable for the quantitative determination of human AT III in different sample types, including serum, plasma, and tissue homogenates. This assay employs the bi-antibody sandwich technique and enzyme-substrate chromogenic reaction to quantify antigen levels in the sample. The amount of synthesized colored products is positively related to the analyte of interest in the sample.

AT III, encoded by the gene SERPINC1, is a small glycoprotein anticoagulant that inactivates several enzymes of the coagulation system like thrombin thus blocking the formation of aberrant blood clots. It plays an important role in the maintenance of a healthy balance between bleeding and clotting. Hereditary or



acquired AT III deficiency leads to thromboembolism, which can block blood flow and damage organs. In addition to the anticoagulant effect, AT III also has an anti-inflammatory role. AT III inhibits inflammation through a coagulant-dependent or -independent effect.

Target Details

This protein is a plasma protease inhibitor and a member of the serpin superfamily. This protein inhibits thrombin as well as other activated serine proteases of the coagulation system, and it regulates the blood coagulation cascade. The protein includes two functional domains: the heparin binding-domain at the N-terminus of the mature protein, and the reactive site domain at the C-terminus. The inhibitory activity is enhanced by the presence of heparin. More than 120 mutations have been identified for this gene, many of which are known to cause antithrombin-III deficiency.

Product Precision

Linearity

Recovery

Typical

Msds

```
{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E17902h.pdf","filename":"MSDS"}}
```