



# Recombinant Bovine Antithrombin-III (SERPINC1)

<b>Product Code</b>	CSB-EP021079BO-B
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P41361
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Bos taurus (Bovine)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	HRSPVEDV CTAKPRDIPV NPMCIYRSSE KKATEGQGSE QKIPGATNRR VWELSKANSH FATAFYQHLA DSKNNNDNIF LSPLSISTAF AMTKLGACNN TLKQLMEVFK FDTISEKTSQ QIHFFFAKLN CRLYRKANKS SELVSANRLF GGKSITFNET YQDISEVVYQ AKLQPLDFKG NAEQSRLTIN QWISNKTEGR ITDVIPPQAI NEFTVLVLVN TIYFKGLWKS KFSPENTRKE LFYKADGESC SVLMMYQESK FRYRRVAEST QVLELPPFKGD DITMVLILPK LEKTLAKVEQ ELTPDMLQEW LDELTTLLV VHMPRFRIED SFSVKEQLQD MGLEDLFSPE KSRLPGIVAE GRSDLYVSDA FHKAFLEVNE EGSEAAASTV ISIAGRSLNS DRVTFKANRP ILVLIREVAL NTIIFMGRVA NPCVD
<b>Source</b>	E.coli
<b>Target Names</b>	SERPINC1
<b>Protein Names</b>	Recommended name: Antithrombin-III Short name= ATIII Alternative name(s): Serpine C1
<b>Expression Region</b>	33-465
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	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.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
<b>Shelf Life</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.



Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.