



Recombinant Bovine Antithrombin-III (SERPINC1)

Product Code	CSB-EP021079BO
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P41361
Product Type	Recombinant Protein
Immunogen Species	Bos taurus (Bovine)
Purity	>85% (SDS-PAGE)
Sequence	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
Source	E.coli
Target Names	SERPINC1
Protein Names	Recommended name: Antithrombin-III Short name= ATIII Alternative name(s): Serpine C1
Expression Region	33-465
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
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.
Reconstitution	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.
Shelf Life	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.