



Recombinant Rat Alpha-1-antiproteinase (Serpina1)

Product Code	CSB-EP021053RA-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P17475
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	EDAQET DTSQQDQSPT YRKISSNLAD FAFSLYRELV HQSNTSNIFF SPMSITTAFA MLSLGSKGDT RKQILEGLEF NLQIPEADI HKAFHLLQT LNRPDSELQL NTGNGLFVNK NLKLVEKFLE EVKNNYHSEA FSVNFADSEE AKKVINDYVE KGTQGKIVDL MKQLDEDTV ALVNYIFFKG KWKRPFNPEH TRDADFHVDK STTVKVPMMN RLGFMDFMYC STLSSWVLM DYLGNATAIF LLPDDGKMQH LEQTLTKDLI SRFLNLRQTR SAILYFPKLS ISGTYNLCTL LSSLGITRVF NNDADLSGIT EDAPLKLSQA VHKAVLTLDE RGTEAAGATV VEAVPMSLPP QVKFDHPFIF MIVESETQSP LFBGKVIDPT R
Source	E.coli
Target Names	Serpina1
Protein Names	Recommended name: Alpha-1-antiproteinase Alternative name(s): Alpha-1-antitrypsin Alpha-1-proteinase inhibitor Serpin A1
Expression Region	25-411
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 secreted and is a serine protease inhibitor whose targets include elastase, plasmin, thrombin, trypsin, chymotrypsin, and plasminogen activator. Defects in this gene can cause emphysema or liver disease. Several transcript variants encoding the same protein have been found for this gene.
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.