



# Recombinant Pig Alpha-1-antitrypsin (SERPINA1)

<b>Product Code</b>	CSB-EP021053PI
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P50447
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Sus scrofa (Pig)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	EGLQGH AVQETDVPRH DHEQHQAAC HRIAPNLADF AFSLYRQVAR QSNTSNIFLS PVTIARAFAM LSLGTKGATH AEILEGLQFN LTEKAEAEIH EGFQHLLHTL NQPDNQLQLT TGNGLFIDEK AKLVPKFLED VKNLYHSEAF SINFRDTEEA KKCINDYVEK GSQGKIVDLV DELDKDTVFA LVNYIFFKGG WEKPFVEVEQT TEEDFHVDEE TTVKVPMMNR LGMFDLHHCD KLSSWVLLMD YVATATAFFI LPDQGKHLQL EDMLTKEIRA KFLEKRYPSS ANLHLPKLT I SGTYDLKSLG NLGITKVFS DEADLSGVTE EQPLKLSKAL HRAVLTIDEK GTEATGATIL EAIPMSIPPV VKFNKPFLFL IYDTKTKAVL FMGKVMNPTQ K
<b>Source</b>	E.coli
<b>Target Names</b>	SERPINA1
<b>Protein Names</b>	Recommended name: Alpha-1-antitrypsin Alternative name(s): Alpha-1 protease inhibitor Alpha-1-antiproteinase Serpin A1
<b>Expression Region</b>	25-421
<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 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.
<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.