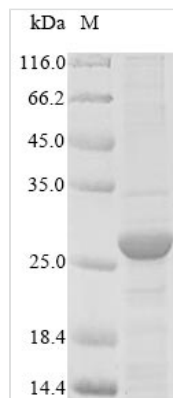




# Recombinant Cat Serum amyloid A protein (SAA1), partial

<b>Product Code</b>	CSB-EP020656CA
<b>Relevance</b>	Major acute phase reactant. Apolipoprotein of the HDL complex.
<b>Abbreviation</b>	Recombinant Cat SAA1 protein, partial
<b>Storage</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.
<b>Uniprot No.</b>	P19707
<b>Alias</b>	Amyloid fibril protein AACurated
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Felis catus (Cat) (Felis silvestris catus)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	EWYSFLGEAAQGAWDMWRAYSDMREANYIGADKYFHARGNYDAAQRGPGG AWAAKVISDARENSQRVTDFFRHGNSGHAEDSKADQEWG
<b>Source</b>	E.coli
<b>Target Names</b>	SAA1
<b>Protein Names</b>	Amyloid fibril protein AACurated
<b>Expression Region</b>	1-90aa
<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>	N-terminal 6xHis-B2M-tagged
<b>Mol. Weight</b>	24.1 kDa
<b>Protein Length</b>	Partial

## Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



## Description

The production of the recombinant *Felis catus* SAA1 protein begins with the creation of the recombinant plasmid, which is synthesized by inserting the gene encoding the *Felis catus* SAA1 protein (1-90aa) into a plasmid vector. The recombinant plasmid is introduced into *e.coli* cells. *e.coli* cells that can survive in the presence of a specific antibiotic are selected and then cultured under conditions conducive to the expression of the gene of interest. The protein is equipped with a N-terminal 6xHis-B2M tag. Following expression, the recombinant SAA1 protein is isolated and purified from the cell lysate using affinity purification. Denaturing SDS-PAGE is then employed to resolve the resulting recombinant *Felis catus* SAA1 protein, demonstrating a purity exceeding 90%.

## 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.