

## 32-7594: Recombinant Mouse $\alpha$ -1-Antitrypsin 1-3/SERPIN A1c (C-6His)(Discontinued)

**Gene :** Serpina1c

**Gene ID :** 20702

**Uniprot ID :** Q00896

### Description

Source: Human Cells.

MW :44.4kD.

Recombinant Mouse Serine Protease Inhibitor-clade A1c is produced by our Mammalian expression system and the target gene encoding Glu25-Lys413 is expressed with a 6His tag at the C-terminus. Alpha-1-antitrypsin 1-3(SERPIN A1) is a secreted protein and belongs to the serpin family. Serpins bind the protease active site resulting in a major conformational rearrangement that traps the enzyme in a covalent acyl-enzyme intermediate. Mouse SERPIN A1 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.

### Product Info

**Amount :** 10  $\mu$ g / 50  $\mu$ g

**Content :** Lyophilized from a 0.2  $\mu$ m filtered solution of PBS, pH7.4.

Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks.

**Storage condition :** Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.

**Amino Acid :** EDVQETDTSQKDQSPASHEIATNLGDF AISLYREL VHQSN TSNIFFSPVSIATAFAMLSLGSKGD THTQILEGLQF  
NLTQTSEAD IHKSFQHLLQTLNRPDSELQLSTGNGLFVNNDLKLVEKFL EEAKNHYQAEVFSVNFAESEEAKKVI  
NDFVEKGTQGKIAEAVKKLDQDTVFALANYILFKGKWKKPFDPENTEEAEFHVDESTTVKVPMMTL SGM LDVH  
HCSTLSSWVLLMDYAGNATAVFLPDDGKMQHLEQTL SKELISKFLLNRRRRLAQIHFPRLSISGEYNLKTLMSP  
LGITRIFNNGADLSGITEENAPL KLSQAVHKAVLTIDETGTEAAAVTVLQMVPMSPMPILRFDHPFLFIIFEEHTQS  
PIFVGKVVDP THKVDHHHHHH

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100  $\mu$ g/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/ $\mu$ g (1 IEU/ $\mu$ g) as determined by LAL test.