

Datasheet for ABIN7557462

## serine (Or Cysteine) Peptidase Inhibitor, Clade A, Member 3G (Serpina3g) (AA 1-440) protein (His tag)



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### Overview

Quantity:	1 mg
Target:	serine (Or Cysteine) Peptidase Inhibitor, Clade A, Member 3G (Serpina3g)
Protein Characteristics:	AA 1-440
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	His tag

### Product Details

Purpose:	Custom-made recombinant Serpina3g Protein expressed in mammalian cells.
Sequence:	MAGVSPAVFG CPDVTLGRNT AVREVQENV T SVDSLTLVSS NTDFAFSLYR KLV LKNPDEN VVFSPFSICT ALALLSLGAK SNTLKEILEG LKFNLTETPE PDIHQGFYRL LDLLSQPGNQ VQISTGSALF IEKHLQILAE FKEKARALYQ AEAFTADFQQ PLKATKLIND YVSNHTQGKI KELISGLKES TLMVLVNYIY FKGKWKNPFD PNDTFKSEFY LDEKRSVIVS MMKTGYLTTP YFRDEELSCT VVELKYTGNA SAMFILPDQG RMQQVEASLQ PETLRKWKNS LKPRMIHEL R LPKFSISTDY SLEHILPELG IREVFSTQAD LSAITGTKDL RVSQVHKAV LDVAETGTEA AAATGMAGVG CCAVDFLEI FFNRPFMII SDTKAHIALF MAKVTNPERS MNFPNGEGAS SQRLESKRLC FGDPLCLIGQ <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

## Product Details

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### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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### Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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### Grade:

custom-made

## Target Details

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### Target:

serine (Or Cysteine) Peptidase Inhibitor, Clade A, Member 3G (Serpina3g)

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### Alternative Name:

Serpina3g ([Serpina3g Products](#))

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### Background:

Serine protease inhibitor A3G (Serpina A3G) (Serpin A3G) (Serine protease inhibitor 2A) (Serpina 2A),FUNCTION: Serine and cysteine protease inhibitor. Can inhibit lysosomal papain-like proteases including the cathepsins B, G, H, K, L and V. Ineffective against elastase, granzyme A, granzyme B, or caspases 3, 8 or 9. Inhibition of cytoplasmic cathepsin B following release from the lysosome may protect cells from apoptosis. This may facilitate the survival of progenitor T-cells and the subsequent development of long term memory CD8 T-cells.  
{ECO:0000269|PubMed:14517268, ECO:0000269|PubMed:15225607, ECO:0000269|PubMed:15311278}.

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### Molecular Weight:

49.0 kDa

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### UniProt:

[Q5I2A0](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months

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