

**Synonym**

SERPINA3,ACT,AACT,GIG24,GIG25

Source

Human Serpin A3, His Tag(SE3-H5221) is expressed from human 293 cells (HEK293). It contains AA His 24 - Ala 423 (Accession # [AAH03559](#)).

Predicted N-terminus: His 24

Molecular Characterization

Serpin A3(His 24 - Ala 423)	Poly-his
AAH03559	

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 46.6 kDa. The protein migrates as 50-63 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μ g by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μ m filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

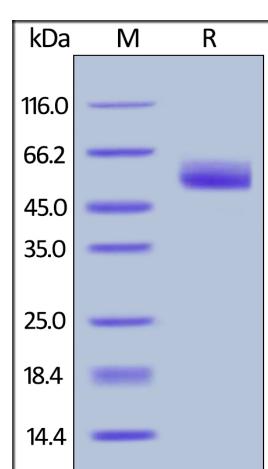
Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

Human Serpin A3, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Background

Serpin A3 is also known as Alpha-1-antichymotrypsin (ACT or AACT), Cell growth-inhibiting gene 24/25 protein, which belongs to the serpin family. Serpin A3 can bind DNA. Although its physiological function is unclear, it can inhibit neutrophil cathepsin G and mast cell chymase, both of which can convert angiotensin-1 to the active angiotensin-2.

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