

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) AAH03559	Poly-his
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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 µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

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.

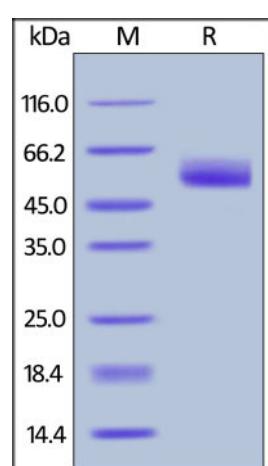
Storage

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 overnight 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.

References

- (1) [Rubin H, et al., 1990, J. Biol. Chem. 265:1199-1207.](#)

Human Serpin A3 Protein, His Tag

Catalog # SE3-H5221



(2) [Kroczyńska B., et al., 2004, J. Biol. Chem. 279:11432-11443.](#)

(3) [Liu T., et al., 2005, J. Proteome Res. 4:2070-2080.](#)

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.