



### Synonym

SerpinD1, HCF2, HLS2, HC-II

### Source

Human Serpin D1, His Tag(HC2-H5224) is expressed from human 293 cells (HEK293). It contains AA Gly 20 - Ser 499 (Accession # [AAH35028](#)).

Predicted N-terminus: Gly 20

### Molecular Characterization

Serpin D1(Gly 20 - Ser 499) AAH35028	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 55.7 kDa. The protein migrates as 66-80 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

### Endotoxin

Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.

### Purity

>95% as determined by SDS-PAGE.

### Formulation

Lyophilized from 0.22  $\mu$ m filtered solution in 50 mM Tris, 150 mM NaCl, pH7.5 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

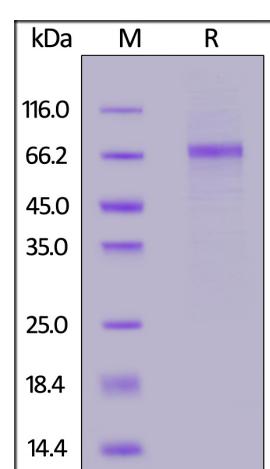
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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 D1, 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 D1 is also known as Heparin cofactor 2 (HCF2), Protease inhibitor leuserpin-2 (HLS2), Heparin cofactor II (HC-II), which belongs to the serpin family. HCF2 is expressed predominantly in liver. Thrombin inhibitor activated by the glycosaminoglycans, heparin or dermatan sulfate. In the presence of the latter, SerpinD1 / HC-II becomes the predominant thrombin inhibitor in place of antithrombin III (AT-III). In a glycosaminoglycan-independent manner, serpinD1 / HC-II also inhibits chymotrypsin. Peptides at the N-terminal of HC-II have chemotactic activity for both monocytes and neutrophils.

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Human Serpin D1 / Heparin Cofactor II Protein, His Tag

Catalog # HC2-H5224



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