

Recombinant Human Serpin D1/Heparin cofactor 2 Protein

Catalog No.: RP01203 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	3053	P05546

Tags

C-His

Synonyms

SERPIND1;D22S673;HC2;HCF2;HCII;HLS2;LS2;THPH10

Product Information

Source	Purification
HEK293 cells	> 90% by SDS-PAGE.

Calculated MW	Observed MW
55.78 kDa	70-80 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of 50mM Tris,150mM NaCl, pH7.5.Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Basic Information

Description

Recombinant Human Serpin D1/Heparin cofactor 2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly20-Ser499) of human Serpin D1/Heparin Cofactor II (Accession #NP_000176.2.) fused with a 6xHis tag at the C-terminus.

Bio-Activity

Measured by its ability to inhibit Recombinant Human Coagulation Factor II/Thrombin cleavage of a fluorogenic peptide substrate Boc-VPR-AMC.The IC50 value is <0.19 nM.

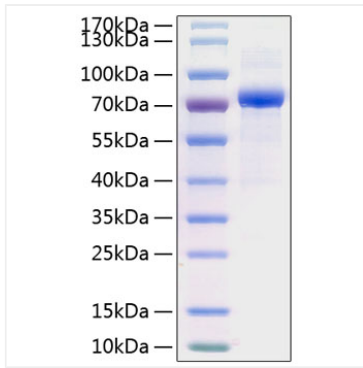
Storage

Store at -20°C.Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

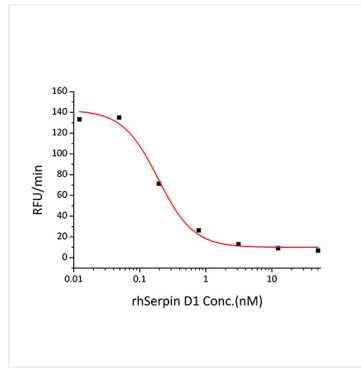
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human Serpin D1/Heparin cofactor 2 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 70-80 kDa.



Recombinant human SERPIND1 inhibits Recombinant Human Coagulation Factor II/Thrombin cleavage of a fluorogenic peptide substrate Boc-VPR-AMC. The IC₅₀ value is <math><0.19\text{ nM}</math>.