Recombinant Human Serpin F2/Alpha-2-antiplasmin Protein

Catalog No.: RP00147

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Sequence Information

Species	Gene ID
Human	5345
Swiss Prot	**Tags**
P08697	C-His

Synonyms
SERPINF2,A2AP,AAP,ALPHA-2-PI, API,PLI

Product Information

Source	Purification
HEK293 cells	≥ 90 % as determined by SDS-PAGE.
Calculated MW	**Observed MW**
52.56 kDa	60-80 kDa

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

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

SerpinF2, also known as alpha-2 antiplasmin (alpha-2 AP), is a member of the Serpin superfamily and the primary physiological inhibitor of the serine protease plasmin, which is responsible for the dissolution of fibrin clots. In addition to plasmin, Serpin F2 is also an efficient inhibitor of trypsin and chymotrypsin. This protease is produced mainly by liver and kidney, and also expressed in muscle, intestine, central nervous system, and placenta also express this protein at a moderate level.SerpinF2 is one of the inhibitors of fibrinolysis. It is a specific plasmin inhibitor, which degrades fibrin and various other proteins. Consequently, the protein plays the dominant role in regulating the blood clotting pathway. Mutations in SerpinF2 gene lead to alpha-2-plasmin inhibitor deficiency, which is characterized by severe hemorrhagic diathesis. Thus, it may be a useful target for developing more effective treatment of thrombotic diseases.

Basic Information

Description
Recombinant Human SerpinF2/SERPINF2 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Met28-Lys491) of human SerpinF2/SERPINF2 (Accession #NP_000925.2) fused with a 6×His tag at the C-terminus.

Activity
Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH2. The IC50 value is <0.23 nM.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

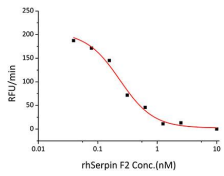
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

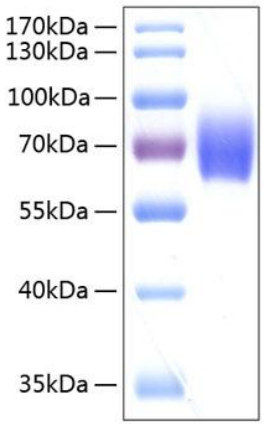
400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

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Validation Data



Recombinant human SERPINF2 inhibits trypsin cleavage of a fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH2. The IC50 value is <0.23nM.



Recombinant Human Serpin F2/Alpha-2-antiplasmin Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.