Recombinant Human Serpin G1/Plasma protease C1 inhibitor Protein

Catalog No.: RP00197

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Sequence Information

Species	Gene ID
Human	710
Swiss Prot	**Tags**
P05155	C-His

Synonyms
SERPING1, C1IN, C1INH, C1NH, HAE1, HAE2, serpin family G member 1,C1IN,C1INH,C1NH, HAE1,HAE2

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.
Calculated MW	**Observed MW**
55.99 kDa	90-100 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

Plasma protease C1 inhibitor, also known as C1-inhibiting factor, C1-INH, C1 esterase inhibitor, SERPING1 and C1IN, is a serine proteinase inhibitor (serpin).Serpin G1/C1 inhibitor is the physiological inhibitor of activated C1r and C1s and regulates activation of both the complement and contact systems. Deficiency of C1 inhibitor results in hereditary angioedema, which is characterized by recurrent episodes of localized angioedema of the skin, gastrointestinal mucosa or upper respiratory mucosa. C1 inhibitor may prove useful in a variety of other diseases including septic shock, reperfusion injury, hyperacute transplant rejection, traumatic and hemorrhagic shock, and the increased vascular permeability associated with thermal injury, interleukin-2 therapy and cardiopulmonary bypass.

Basic Information

Description
Recombinant Human SerpinG1/C1 inhibitor/C1IN Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Ala500) of human SerpinG1/C1 inhibitor/C1IN (Accession #NP_000053.2) fused with a 6×His tag at the C-terminus.

Activity

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℃

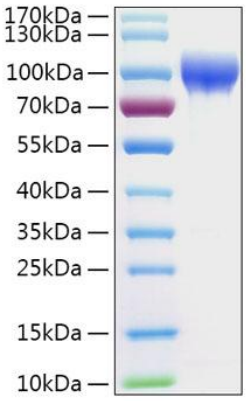
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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For research use only. Not for therapeutic or diagnostic purposes.
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Validation Data



Recombinant Human Serpin G1/Plasma protease C1 inhibitor Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.