

Recombinant Human Fetuin A/AHSG Protein

Catalog No.: RP00195 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	197	P02765

Tags

C-His

Synonyms

AHSG; A2HS; AHS; FETUA; HSGA;
alpha-2-HS-glycoprotein

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
38.18 kDa	48-55 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

Fetuin-A, also known as Alpha-2-HS-Glycoprotein (AHSG), belongs to the Fetuin family. It is a major plasma protein and a member of the cystatin superfamily of protease inhibitors. It is expressed by hepatocytes, the principal cell source, and by monocyte/macrophages. It is involved in several functions, such as endocytosis, brain development and the formation of bone tissue. The protein is commonly present in the cortical plate of the immature cerebral cortex and bone marrow hemopoietic matrix, and it has therefore been postulated that it participates in the development of the tissues.

Basic Information

Description

Recombinant Human Fetuin A/AHSG Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala19-Val367) of human Fetuin-A/AHSG/FETUA (Accession #NP_001613.2) fused with a 6×His tag at the C-terminus.

Bio-Activity

1. Measured by its ability to inhibit calcium phosphate precipitation. The IC₅₀ value is <25 μg/mL.

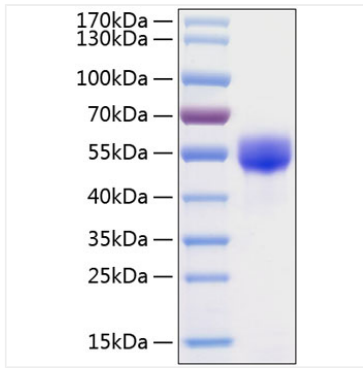
Storage

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

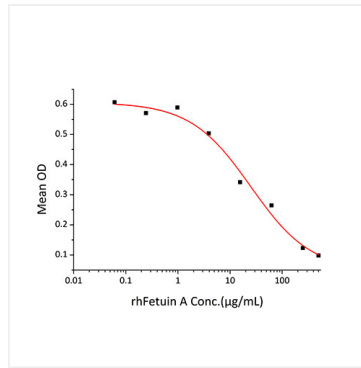
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human Fetuin A/AHSG Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 48-55 kDa.



Recombinant Human Fetuin A inhibit calcium phosphate precipitation. The IC50 value is <math><25 \mu\text{g/mL}</math>.