

Synonym

AHSG,FETUA,Fetuin A

Source

Human Fetuin A, His Tag(FEA-H5221) is expressed from human 293 cells (HEK293). It contains AA Ala 19 - Val 367 (Accession # [P02765-1](#)).
Predicted N-terminus: Ala 19

Molecular Characterization

Fetuin A(Ala 19 - Val 367)
P02765-1

Poly-his

This protein carries a polyhistidine tag at the C-terminus
The protein has a calculated MW of 38.2 kDa. The protein migrates as 45-55 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>98% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 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.

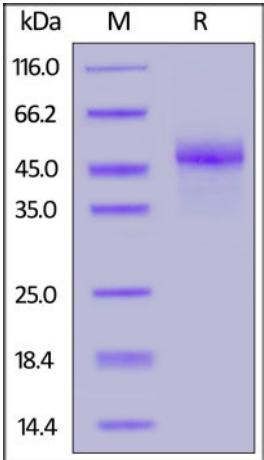
Storage

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 Fetuin A, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 98%.

Background

Alpha-2-HS-glycoprotein (AHSG) is also known as Alpha-2-Z-globulin, Ba-alpha-2-glycoprotein, Fetuin-A (FETUA), is a glycoprotein that is composed of two subunits, the A and B chains, belongs to the cystatin family of proteases inhibitors and the fetuin class of plasma binding proteins. AHSG / Fetuin A is highly expressed in embryonic cells and adult hepatocytes, and is expressed to a lesser extent in monocytes/macrophages. Fetuins are carrier proteins like albumin. Fetuin-A / AHSG forms soluble complexes with calcium and phosphate and thus is a carrier of otherwise insoluble calcium phosphate. Thus AHSG / Fetuin A is a potent

inhibitor of pathological calcification. Fetuin A / FETUA promotes phagocytosis of apoptotic cells and plays a role in bone development, calcium homeostasis and insulin sensitivity. Mice deficient in Fetuin-A show systemic calcification of soft tissues.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.