9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

AHSG

Alpha-2-HS-Glycoprotein Human
RCP0031

Product Overview

Name	AHSG
Description	
Alpha-2-HS-Glycoprotein Human	
Accession (Primary)	P02765
Synonyms	
Alpha-2-HS-glycoprotein, Fetuin-A, Alpha-2-Z-globulin, Ba-alpha-2-glycoprotein, AHSG, FETUA, AHS, A2HS, HSGA, PRO2743.	
Introduction	
Fetuin is a liver-produced negative acute phase protein composed of two subunits, the A and B chains. Fetuin homologs have been identified in several species including rat, sheep, pig, rabbit, guinea pig, cattle, mouse and human. Multiple physiological roles for these homologs have been suggested, including ability to bind to hydroxyapatite crystals and to specifically inhibit the tyrosine kinase (TK) activity of the insulin receptor (IR). Fetuin-A (alpha2-Heremans-Schmid glycoprotein; AHSG) is an important circulating inhibitor of calcification in vivo, and is downregulated during the acute-phase response. Sera from patients on long-term dialysis with low AHSG concentrations showed impaired ex-vivo capacity to inhibit CaxPO4 precipitation. Fetuin may influence the resolution of inflammation by modulating the phagocytosis of apoptotic cells by macrophages. ASHG blocks TGF-beta-dependent signaling in osteoblastic cells, and mice lacking ASHG display growth plate defects, increased bone formation with age, and enhanced cytokine-dependent osteogenesis.	
Source	
Purified from the human plasma.	
Physical Appearance	
Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Filtered (0.4 µm) and lyophilized from 0.5 mg/ml in 20Mm Tris buffer and 200mM NaCl, pH 8.0.	
Stability	
Store the lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.	

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Purity

Greater than 95% as determined by SDS-PAGE.

Solubility

It is recommended to add deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Precautions

AHSG is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P02765)