

AHSG

Native Human Fetuin Alpha-2 HS Glycoprotein

Catalog No.	CRF121A CRF121B CRF121C	Quantity:	10 µg 50 µg 1.0 mg
Alternate Names:	Alpha-2-HS-glycoprotein, Fetuin-A, Alpha-2-Z-globulin, Ba-alpha-2-glycoprotein, AHSG, FETUA, AHS, A2HS, HSGA, PRO2743.		
Description:	<p>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 <i>in vivo</i>, and is downregulated during the acute-phase response. Sera from patients on long-term dialysis with low AHSG concentrations showed impaired <i>ex-vivo</i> 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.</p>		
GeneID:	197		
Physical Appearance:	Filtered White lyophilized (freeze-dried) powder.		
Source:	Purified from the human plasma.		
Formulation:	Filtered (0.4 µm) and lyophilized from 0.5 mg/ml in PBS pH 7.4.		
Purity:	Greater than 95% as determined by SDS-PAGE.		
Purification:	The human Alpha-2-HS-Glycoprotein was purified from the human plasma.		
Solubility:	It is recommended to add deionized water to prepare a working stock solution of approximately 0.5 mg/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.		
Applications:	Western blotting, ELISA.		
Storage & 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. The lyophilized protein remains stable until the expiration date when stored at -20°C. Avoid repeated freeze-thaw cycles.		

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