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AHSG Human HEK

Alpha-2-HS-Glycoprotein Human Recombinant HEK
RCP0033

Product Overview

Name	AHSG Human HEK
Description	
Alpha-2-HS-Glycoprotein Human Recombinant HEK	
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 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	
HEK293 cells.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
AHSG was lyophilized from a 0.2 μM filtered solution of 20mM PB and 150mM NaCl, pH 7.5.	
Stability	
Lyophilized AHSG although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution AHSG should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.	

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Purity

Greater than 95% as determined by SDS-PAGE.

Amino acid sequence

APHGPGLIYRQPNCDDPETEEAALVAIDYINQNLPWGYKHTLNQIDEVKVWPQQPSGELFEIE
IDTLETTCHVLDPTPVARCSVRQLKEHAVEGDCDFQLLKLDGKFSVVYAKCDSSPDSAEDVRK
VCQDCPLLAPLNDTRVVHAAKAALAAFNAQNNGSNFQLEEISRAQLVPLPPSTYVEFTVSGTD
CVAKEATEAAKCNLLAEKQYGFCKATLSEKLGGAEVAVTCTVFQTQPVTSQPQPEGANEAVPTP
VVDPDAPPSPPLGAPGLPPAGSPPDSHVLLAAPPGHQLHRAHYDLRHTFMGVVSLGSPSGEVSH
PRKTRTVVQPSVGAAAGPVVPPCPGRIRHFKV VDHHHHHH.

Solubility

It is recommended to reconstitute the lyophilized AHSG in 1xPBS to a concentration no less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

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

Target Information: (P02765)