
Product Data Sheet

Product Name: FETUB Human

Cat. No.: GP23491

Batch No.: 1

Product Data

Purity	>98%	Source	HEK 293.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Fetuin-B; 16G2; Fetuin-like protein IRL685; Gugu; FETUB; IRL685.		
Amino Acid Sequence	<p>HSHVCGAMSP PQLALNPSAL LSRGCNDSDV LAVAGFALRD INKDRKDGIV LRLNRVNDAQ EYRRGGLGSL FYLTLDVLET DCHVLRKKAW QDCGMRIFFE SVYGQCKAIF YMNPNRSVLY LAAYNCTLRP VSKKKIYMTC PDCPSSIPTD SSNHQVLEAA TESLAKYNNE NTSKQYSLFK VTRASSQWVW GPSYFVEYLI KESPCTKSQA SSCSLQSSDS VPVGLCKGSL TRTHWEKFVS VTCDFEFESQA PATGSENSAV NQKPTNLPKV EESQQKNTTP TDSPSKAGPR GSVQYLPDLD DKNSQEKGPQ EAFPVHLDLT TNPQGETLDI SFLFLEPMEE KLVVLPFPKE KARTAECPPG AQNASPLVLP PHHHHHH.</p>		
Solubility	It is recommended to add deionized water to a working concentration of 0.5mg/ml and let the lyophilized pellet dissolve completely. FETUB is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	FETUB filtered (0.4µm) and lyophilized from 0.5mg/ml in 0.05M phosphate buffer and 0.075M NaCl, pH 7.4.		

Introduction

Fetuin-B (FETUB) belongs to the fetuin family, part of the cystatin superfamily proteins and comprised of 2 cystatin domains. Fetuin-B is found in a secreted form in the serum, it is expressed in the liver, tongue and placenta. FETUB regulates osteogenesis by inhibition effect on mineralization. Fetuins are implicated in a number of various functions, including osteogenesis and bone resorption, regulation of the hepatocyte growth factor receptors, and response to systemic inflammation. FETUB also has a role in oocyte maturation. Fetuin-B is essential in preventing premature zona pellucida hardening before fertilization, probably by inhibiting the protease activity of ASTL, which

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is a protease that mediates the cleavage of ZP2 and triggers zona pellucida hardening.

Stability

Store 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 .

Background

Fetuin-B Human Recombinant produced in HEK cells is a single, glycosylated, polypeptide chain containing a total of 377 amino acids, having a molecular mass of 41.8kDa (calculated) though it migrates at approximately 55kDa on SDS PAGE, the Fetuin-B is also composed of a 4 a.a N-terminal linker and fused to a 6 a.a His tag at C-Terminus. The Human FETUB is purified by proprietary chromatographic techniques.

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