

## 32-3828: FETUB Recombinant Protein

**Alternative Name :** Fetuin-B,16G2,Fetuin-like protein IRL685,Gugu,FETUB,IRL685.

### Description

Source : HEK 293. 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. 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 insulin and 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 is a protease that mediates the cleavage of ZP2 and triggers zona pellucida hardening.

### Product Info

<b>Amount :</b>	10 µg
<b>Purification :</b>	Greater than 90.0% as determined by SDS-PAGE.
<b>Content :</b>	FETUB filtered (0.4µm) and lyophilized from 0.5mg/ml in 0.05M phosphate buffer and 0.075M NaCl, pH 7.4.
<b>Storage condition :</b>	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.
<b>Amino Acid :</b>	HSHVCGAMSP PQLALNPSAL LSRGCNDS DV LAVAGFALRD INKDRKDG YV LRLNRVNDAQ EYRRGGLGSL FYLTLDVLET DCHVLRKKAW QDCGMRIFFE SVYGQCKAIF YMNNPSRVLY LAAYNCTLRP VSKKKIYMT C PDCPSSIPTD SSNHQVLEAA TESLAKYNN E NTSKQYSLFK VTRASSQWV V GPSYFVEYLI KESPCKSQA SSCSLQSSDS VPVGLCKGSL TRTHWEKFVS VTCDFEFESQA PATGSENSAV NQKPTNLPKV EESQQKNTPP TDSPSKAGPR GSVQYLPDLD DKNSQEKGPQ EAFPVHDLT TNPQGETLDI SFLFLEPMEE KLVVLPFPKE KARTAECGP AQNASPLVLP PHHHHHH.

### Application Note

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.

