

## Recombinant Human Fetuin-B/FETUB Protein (His Tag)

**Catalog Number:** PKSH032426

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

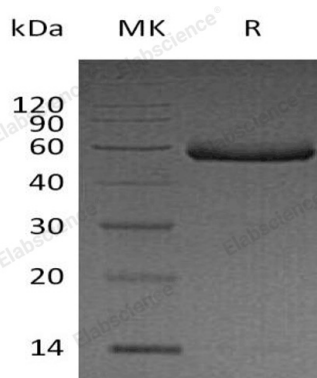
### Description

<b>Species</b>	Human
<b>Source</b>	HEK293 Cells-derived Human Fetuin-B;FETUB protein Cys 16-Pro382, with an C-terminal His
<b>Calculated MW</b>	41.5 kDa
<b>Observed MW</b>	55 kDa
<b>Accession</b>	Q9UGM5
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 °C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.2. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
	Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

### Data



> 95 % as determined by reducing SDS-PAGE.

### Background

### For Research Use Only

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Fetuin-B is a member of the Fetuin family that is part of the Cystatin superfamily of Cysteine Protease inhibitors. It is reported that Fetuin-B is highly expressed in liver tissue, in tongue and placenta tissues. Fetuin-B is a paralogue of Fetuin-A. Fetuin-A and Fetuin-B display similarities and differences in their characteristics, however, they share only 20% amino acid sequence identity. The amounts of Fetuin-B in human serum, unlike Fetuin-A, vary with gender and are higher in females than in males. Fetuin-B is an inhibitor of basic calcium phosphate precipitation but is less active than Fetuin-A. Fetuin-B expression is decreased in Fetuin-A deficient knock-out mice. The expression of Fetuin-B has been shown to be regulated by FXR (Farnesoid X Receptor), a nuclear receptor activated by bile acids. Evidence has shown that overexpression of Fetuin-B in skin squamous carcinoma cells suppresses tumor growth in nude mice. The function of Fetuin B is still not fully characterized.