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## Datasheet for ABIN7520090 IGFBP4 Protein (His tag)

### Overview

Quantity:	100 µg
Target:	IGFBP4
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IGFBP4 protein is labelled with His tag.

### Product Details

Purpose:	Active Recombinant Human IGFBP-4 Protein
Sequence:	MLPLCLVAAL LLAAGPGPSL GDEAIHCPPC SEEKLARCRP PVGCEELVRE PGCGCCATCA LGLGMPCGVY TPRCGSGLRC YPPRGVEKPL HTLMHGQGVC MELAEIEAIQ ESLQPSDKDE GDHPNNSFSP CSAHDDRCLQ KHFAKIRDRS TSGGKMKVNG APREDARPVP QGSCQSELHR ALERLAASQS RTHEDLYIIP IPNCDRNGNF HPKQCHPALD GQRGKCWCVD RKTGVKLP GG LEPKGELDCH QLADSFRE
Specificity:	Met1-Glu258
Purity:	> 92 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.
Biological Activity Comment:	1.Measured by its binding ability in a functional ELISA. Immobilized Human IGFBP4 at 1 µg/mL (100 µL/well) can bind Human IGF1 with a linear range of 1.95-111.32 ng/mL.[2.Measured by

## Product Details

its binding ability in a functional ELISA. Immobilized Human IGFBP4 Protein at 1 µg/mL (100 µL/well) can bind IGF1 with a linear range of 1.95-122.3ng/mL.

## Target Details

Target:	IGFBP4
Alternative Name:	IGFBP-4 ( <a href="#">IGFBP4 Products</a> )
Background:	<p>Description: IGFBP-4 (insulin-like growth factor binding protein 4) is member of the IGFBP family of structurally similar secreted glycoproteins . IGFBP-4 binds both insulin-like growth factor 1 (IGF-1) and IGF-2 with high affinity and inhibits IGF action in vitro. It circulates in the plasma in both glycosylated and non-glycosylated forms. Binding of this protein prolongs the half-life of the IGFs and alters their interaction with cell surface receptors. There is mounting evidence that IGFBP proteins plays a key role in the regulation of IGF bioavailability, by modulating its molecular size, capillary membrane permeability, target tissue specificity, cell membrane adherence and IGF affinity.</p> <p>Name: IGFBP4,BP-4,HT29-IGFBP,IBP4,IGFBP-4</p>
Gene ID:	3487
UniProt:	<a href="#">P22692</a>
Pathways:	<a href="#">WNT Signaling</a> , <a href="#">Myometrial Relaxation and Contraction</a> , <a href="#">Regulation of Carbohydrate Metabolic Process</a>

## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C

## Handling

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Storage Comment: Store the lyophilized protein at -20°C to -80 °C for long term.  
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.