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Datasheet for ABIN7520092 IGFBP6 Protein (His tag)

Overview

Quantity:	100 µg
Target:	IGFBP6
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IGFBP6 protein is labelled with His tag.

Product Details

Purpose:	Active Recombinant Human IGFBP-6 Protein
Sequence:	MTPHRLLPPL LLLLALLLAA SPGGALARCP GCGQGQVQAGC PGGCVVEEDG GSPAEGCAEA EGCLRREGQE CGVYTPNCAP GLQCHPPKDD EAPLRALLG RGRCLPARAP AVAEENPKES KPQAGTARPO DVNRRDQQRN PGTSTTPSQP NSAGVQDTEM GPCRRHLDSV LQLQTEVYR GAQTLVYVPC DHRGFYRKRQ CRSSQGQRRG PCWCVDRMGK SLPGSPDGNG SSSCPTGSSG
Specificity:	Met1-Gly240
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized recombinant human IGFBP6 at 1 µg/mL (100 µL/well) can bind recombinant human IGF1 with a linear range of 30-250 ng/mL.

Target Details

Target:	IGFBP6
Alternative Name:	IGFBP-6 (IGFBP6 Products)
Background:	<p>Description: The superfamily of insulin-like growth factor (IGF) binding proteins include the six high-affinity IGF binding proteins (IGFBP) and at least four additional low-affinity binding proteins referred to as IGFBP related proteins (IGFBP-rP). All IGFBP superfamily members are cysteine-rich proteins with conserved cysteine residues, they can bind IGF-I and IGF-II with the equal affinity. Insulin-like growth factor (IGF) binding proteins (IGFBPs) have been shown to either inhibit or enhance the action of IGF, or act in an IGF-independent manner in the prostate. IGF-binding protein-4 (IGFBP-4) inhibits IGF-I action in vitro and is the most abundant IGFBP in the rodent arterial wall. IGFBP6 is directly downregulated by the beta-catenin/TCF complex in desmoid tumors, and imply a role for the IGF axis in the proliferation of desmoid tumors. There is mounting evidence that the structure of the 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: IGFBP6,IBP6</p>
Gene ID:	3489
UniProt:	P24592
Pathways:	WNT Signaling, Myometrial Relaxation and Contraction

Application Details

Restrictions: For Research Use only

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
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.