Active Recombinant Human Insulin-Like Growth Factor Binding Protein 2, 36kDa

Cat. No. IGFBP2-5049H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IGFBP2 was expressed in Hi-5 Insect cells and purified by using conventional chromatography techniques.
Species	Human
Source	Human
Description	IGF-BPs controls the distribution, function and activity of IGFs in various cell tissues and body fluids. Currently there are seven named IGF-BPs that form high affinity complexes with both IGF-I and IGF-II. IGF-BP2 is a cysteine-rich secreted protein produced by bone cells, and is most abundant in the brain. IGF-BP2 has been shown to inhibit IGF-II action in human breast and ovarian carcinoma cells.
Form	Supplied as a lyophilized powder.
Purity	>98% pure by SDS PAGE and HPLC
Sequence	Region of IGF BP2 protein corresponding to amino acids EVLFRCPPCT PERLAACGPP PVAPPAAVAA VAGGARMPCA ELVREPGCGC CSVCARLEGE ACQVYTPRCG QGLRCYPHPG SELPLQALVM GEGTCEKRRD AEYGASPEQV ADNGDDHSEG GLVENHVDST MNMLGGGGSA GRKPLKSGMK ELAVFREKVT EQHRQMGKGG KHHLGLEEPK KL
Molecular Mass	31.5 kDa

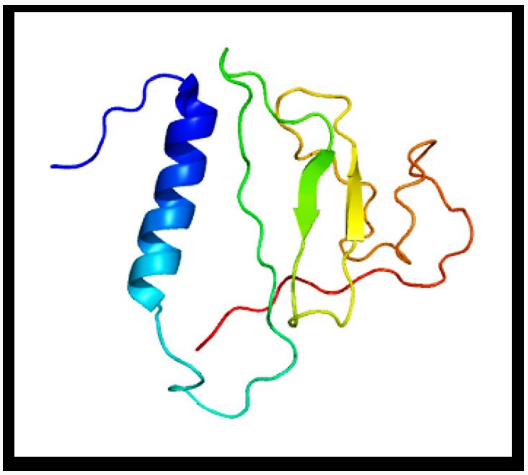
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Applications	Numerous applications are possible with this product and should be tested by the end user under their own laboratory conditions
Endotoxin Levels	Endotoxin level is less than 0.1 ng per ug (1 EU/ug).
Bioactivity	Determined by its ability to inhibit IGF-I induced proliferation of FDC-P1 cells.
Storage	Store at 4 deg C until reconstitution. Following reconstitution aliquot and freeze at -20 deg C for long term storage. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name	IGFBP2 insulin-like growth factor binding protein 2, 36kDa [Homo sapiens]
Official Symbol	IGFBP2
Synonyms	insulin-like growth factor binding protein 2, 36kDa; IBP2; IGF-BP53; IGFBP2; BP2; IBP-2; IGFBP-2; IGF-binding protein 2; insulin-like growth factor binding protein 2 (36kD); OTTHUMP00000207751; OTTHUMP00000207753
Gene ID	3485
mRNA Refseq	NM_000597
Protein Refseq	NP_000588
MIM	146731
UniProt ID	P18065
Chromosome Location	2q33-q34

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Pathway	Diabetes pathways; Myometrial Relaxation and Contraction Pathways; Regulation of Insulin-like Growth Factor (IGF) Activity by Insulin-like Growth Factor Binding Proteins (IGFBPs)
Function	insulin-like growth factor I binding; insulin-like growth factor II binding; protein binding
PDBrendering based on 2h7t.	

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