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32-20311: Recombinant Human IGF-BP5(Discontinued)

Reactivity : Human
Alternative Name : Insulin-like Growth Factor-Binding Protein 5, IBP-5

Description

Source:E.coliIGF-BPs control the distribution, function and activity of IGFs in various cell tissues and body fluids.Â Currently, there are seven named IGF-BPs that form high affinity complexes with both IGF-I and IGF-II.Â IGF-BP5 is a 28.6 kDa, cysteine-rich, secreted protein produced by vascular smooth muscle cells.Â It is the major IGF-binding protein present in bone tissue and helps potentiate the action of IGF-I on smooth muscle cells, fibroblasts, and osteoblasts.Â Data shows that IGFBP-5 acts as a growth inhibitor and pro-apoptotic agent in breast cancer cells.Â IGFBP-5-overexpressing mice show an increase in neonatal mortality, reduced female fertility, whole-body growth inhibition, and retarded muscle development.Â Recombinant Human IGF-BP5 is a 28.6 kDa protein consisting of 253 amino acid residues.

Product Info

Amount : 5 µg / 25 µg
Purification : Purity: >= 98% by SDS-PAGE gel and HPLC analyses.
Content : This recombinant protein is supplied in lyophilized form.
Amino Acid : MLGSFVHCEP CDEKALSMCP PSPLGCELVK EPGCGCCMTC ALAEGQSCGV YTERCAQGLR CLPRQDEEKP LHALLHGRGV CLNEKSYREQ VKIERDSREH EEPTTSEMAE ETYSPKIFRP KHTRISELKA EAVKKDRRKK LTQSKFVGGA ENTAHPRIIS APEMRQESEQ GPCRRHMEAS LQELKASPRM VPRAVYLPNC DRKGFYKRKQ CKPSRGRKRG ICWCVDKYGM KLPGMEYVDG DFQCHTFDSS NVS

Application Note

TheÃ Â ED_{50}Ã Â was determined by its ability to inhibit IGF-II induced proliferation of MCF-7 is <= 0.3 Ã Âµg/ml in the presence of 15 ng/ml of human IGF-II.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.