

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

Reactivity : Human

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

Description

Source: *E.coli* IGF-BPs control 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-BP5 is a 28.6 kDa, cysteine-rich, secreted protein produced by vascular smooth muscle cells. 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. Data shows that IGFBP-5 acts as a growth inhibitor and pro-apoptotic agent in breast cancer cells. IGFBP-5-overexpressing mice show an increase in neonatal mortality, reduced female fertility, whole-body growth inhibition, and retarded muscle development. 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 PSLGCELVK EPGCGCCMTC ALAEGQSCGV YTERCAQGLR
CLPRQDEEK LHALHGRGV CLNEKSYREQ VKIERDSREH EEPTTSEMAE ETYSPKIFRP KHTRISELKA
EAVKKDRRKK LTQSKFVGGA ENTAHPRIIS APEMRQESEQ GPCRRHMEAS LQELKASPRM VPRAVYLPNC
DRKGFYKRKQ CKPSRGRKRG ICWCVDKYGM KLPGMEYVDG DFQCHTFDSS NVS

Application Note

The ED_{50} was determined by its ability to inhibit IGF-II induced proliferation of MCF-7 is $\leq 0.3 \mu\text{g/ml}$ in the presence of 15 ng/ml of human IGF-II.