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32-20190: Animal-Free Recombinant Human IGF-II(Discontinued)

Alternative Name : Insulin-like Growth Factor-II, Somatamedin A

Description

Source:E.coli The IGFs are mitogenic, polypeptide growth factors that stimulate the proliferation and survival of various cell types, including muscle, bone, and cartilage tissue in vitro.Â IGFs are predominantly produced by the liver, altho Âµgh a variety of tissues produce the IGFs at distinctive times.Â The IGFs belong to the Insulin gene family, which also contains insulin and relaxin. Â The IGFs are similar to insulin by structure and function, but have a much higher growth-promoting activity than insulin.Â IGF-II expression is influenced by placenta lactogen, while IGF-I expression is regulated by growth hormone.Â Both IGF-I and IGF-II signal through the tyrosine kinase type I receptor (IGF-IR), but IGF-II can also signal through the IGF-II/Mannose-6-phosphate receptor.Â Mature IGFs are generated by proteolytic processing of inactive precursor proteins, which contain N-terminal and C-terminal propeptide regions.Â Recombinant Human IGF-I and IGF-II are globular proteins containing 70 and 67 amino acids, respectively, and 3 intra-molecular disulfide bonds.Â The calculated molecular weight of Recombinant Human IGF-II is 7.5 kDa.

Product Info

Amount : 10 µg / 50 µg
Purification : Purity: >= 98% by SDS-PAGE gel and HPLC analyses.
Content : This recombinant protein is supplied in lyophilized form.
Amino Acid : AYRPSETLCG GELVDTLQFV CGDRGFYFSR PASRVSRRSR GIVEECCFRS CDLALLETYC ATPAKSE

Application Note

Determined by its ability to stimulate the proliferation of mouse FDC-P1 cells. The expectedÃ□Â ED_{50}Ã□Â is <= 2.0 ng/ml, corresponding to a specific activity of >= 5 x 10^5units/mg.