

IGFBP3, 28-291aa, Human, His tag, E.coli

Cat.NO.: TP02582

3th Edition

Synonyms:Insulin-like growth factor binding protein 3 isoform b precursor, IBP3, BP-53

Description:IGFBP3 also known as Insulin-like growth factor binding protein 3 isoform b precursor. They are structurally and functionally related to insulin but have a much higher growth-promoting activity. It may be a physiological regulator of [1-14C]-2-deoxy-D-glucose (2DG) transport and glycogen synthesis in osteoblasts. It stimulates glucose transport in rat bone-derived osteoblastic (PyMS) cells and is effective at much lower concentrations than insulin, not only regarding glycogen and DNA synthesis but also with regard to enhancing glucose uptake. It may play a role in synapse maturation. Recombinant human IGFBP3, fused to His-tag at N-terminus, was expressed in E.coli.

Form:Liquid, In 20mM Tris-HCl (pH8.0) containing 10% glycerol

Molecular Weight:31kDa (285aa)

Sequences:

MGSSHHHHHHSSGLVPRGSHMGASSAGLGPVVRCEPCDARALAQCAPPPAVCAELVREPGCGCCLTCALSEGQ
PCGIYTERCGSGLRCQPSPDEARPLQALLDGRGLCVNASAVSRLRAYLLPAPPAPGNASESEEDRSAGSVESPSV
SSTHRVSDPKFHPLHSLIIKKGHAKDSQRYKVDYESQSTDTQNFSSSESKRETEYGPCRREMEDTLNHLKFLNVLS
PRGVHIPNCDKKGIFYKKKQCRPSKGRKRGFCWCVDKYGQPLPGYTTKGKEDVHCYSMQSK

Purity:> 95% by HPLC

Concentration:1mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.