

IGF-BP-2, His, Human

Cat. No.: Z03201-1

Size: 1.0 mg

Synonyms: Insulin-like growth factor-binding protein 2, IBP-2, BP-2

Description:

IGF-BP-2, also known as Insulin-like growth factor-binding protein 2, IBP-2 and BP-2, is a cysteine-rich secreted protein belonging to the IGF-binding protein superfamily. It is expressed by the central nervous system, bone cells and reproductive tissues. IGF-BP-2 binds to both IGF-I and IGF-II, with a much higher binding affinity to IGF-II than IGF-I. IGF-BP-2 has been shown to inhibit and stimulate the growth promoting effects of IGFs, thus serving as a regulator for IGF distribution, function and activity.

Amino Acid Sequence:

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00001 FRCPPCTPER LAACGPPVVA PPAVAAVAG GARMPCAELV
00041 REPGCGCCSV CARLEGEACG VYTPRCGQGL RCYPHPGSEL
00081 PLQALVMGEG TCEKRRDAEY GASPEQVADN GDDHSEGLV
00121 ENHVDSTMNM LGGGGSAGRK PLKSGMKELA VFREKVTEQH
00161 RQMGKGGKHH LGLEEPKCLR PPPARTPCQQ ELDQVLERIS
00201 TMRLPDERGP LEHLYSLHIP NCDKHGLYNL KQCKMSLNGQ
00241 RGEWCVNPVN TGKLIQGAPT IRGDPECHLF YNEQQEARGV
00281 HTQRMQHXXX HH
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Source: HEK 293

Species: Human

Biological Activity: ED₅₀ < 2 µg/ml, measured in a bioassay using FDC-P1 cells in the presence of 15 ng/ml human IGF-II.

Molecular Weight: 6-20 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH₂O or PBS at 100 µg/ml.

Purity: > 95% as analyzed by SDS-PAGE.

Endotoxin Level: < 0.2 EU/µg, determined by LAL method.

Storage: Lyophilized recombinant human IGF-BP-2, His remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, human IGF-BP-2, His should be stable up to 1 week at 4°C or up to 2 months at -20°C.