IGF-BP1 Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: Insulin-like Growth Factor-Binding Protein 1, IBP-1, Placenta Protein 12 (PP12)

Cat. No.:

RBG10188005	(5 µg)
RBG10188025	(25 µg)
RBG10188100	(100 µg)

Description

IGF-BPs controls 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-BP1 is a 25.4 kDa, cysteine-rich, secreted protein expressed in the liver, deciduas, kidneys, and in amniotic fluid, where it is the most abundant IGF-BP. Levels of IGF-BP1 in serum are lowest after food consumption. IGF-BP1 binds to both IGF-I and IGF-II with equal affinity. Phosphorylated IGF-BP1 hinders IGF actions, whereas nonphosphorylated IGF-BP1 is stimulatory. Recombinant Human IGF-BP1 is a 25.4 kDa protein consisting of 235 amino acid residues (Isoform A).

Research topic

Apoptosis, Diabetology - Other Relevant Products, Oncology

Amino Acid Sequence

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MAPWQCAPCS AEKLALCPPV SASCSEVTRS AGCGCCPMCA LPLGAACGVA TARCARGLSC RALPGEQQPL HALTRGQGAC
VQESDASAPH AAEAGSPESP ESTEITEEEL LDNFHLMAPS EEDHSILWDA ISTYDGSKAL HVTNIKKWKE PCRIELYRVV
ESLAKAQETS GEEISKFYLP NCNKNGFYHS RQCETSMDGE AGLCWCVYPW NGKRIPGSPE IRGDPNCQIY FNVQN
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Source

E. coli

Purity

98%

Biological Activity

The ED_{50} was determined by its ability to inhibit IGF-I induced proliferation of MCF-7 is 0.5 µg/ml in the presence of 6 ng/ml of human IGF-I.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at-20°C to -80°C.

Storage, Stability/Shelf Life

-20°C

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