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Certificate of Analysis

Recombinant Human IGF-BP2

Catalog# 350-06B

Lot # 0807S430

Expiration Date: September 2012

Source: (BTI-Tn-5B1-4) High-5 Insect cells*

*Manufactured using BTI-Tn-5B1-4 cells under license from the
Boyce Thompson Institute for Plant Research, Inc.

Sequence: EVLFRCPPCT PERLAACGPP PVAPPAAVAA
VAGGARMPCA ELVREPGCGC CSVCARLEGE ACQVYTPRCG
OGLRCYHPHG SELPLOALVM GEGTCEKRRD AEYGASPEQV
ADNGDDHSEG GLVENHVDST MNMLGGGGSA
GRKPLKSGMK ELAVFREKVT EQHRQMKGKG KHHLGLEPK
KLRPPPARTP CQELDQVLE RISTMRLPDE RGPLEHLYSL
HIPNCDKHGL YNLKOCKMSL NGQRGECWCV NPNTGKLIQG
APTIRGDPEC HLFYNEQOEA RGVHTQRMQ

Synonyms: IBP-2

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-BP2 is a cysteine-rich secreted protein produced by bone cells, and is most abundant in the brain. IGF-BP2 has been shown to inhibit IGF-II action in human breast and ovarian carcinoma cells. Recombinant human IGF-BP2 is a 31.5 kDa protein consisting of 289 amino acid residues including the IGF-BP domain and thyroglobulin type-I domain.

Purity: $\geq 98\%$ by SDS-PAGE gel and HPLC analyses.

Endotoxin: Endotoxin level is < 0.1 ng / μ g of IGF-BP2 (< 1 EU/ μ g).

Formulation: Sterile filtered through a 0.2 micron filter. Lyophilized from 1x PBS, pH 7.2.

Reconstitution: Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. *Do not vortex.* This solution can be stored at 2-8°C for up to 1 week. 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: The lyophilized protein is stable at room temperature for up to 1 month. Working aliquots stored with a carrier protein are stable for at least 3 months at -20°C to -80°C. Avoid repeated freeze/thaw cycles.

Biological activity: Determined by its ability to inhibit IGF-I induced proliferation of FDC-P1 cells.

Country of Origin: USA



QC Manager

Usage: For Research Use Only. Not for use in diagnostic or therapeutic procedures.