



# Recombinant Human IGF-BP2

20180418BB



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>100-198</b>
<b>Size:</b>	20 µg
<b>Lot. No.:</b>	According to product label

## Scientific Background

<b>Gene-ID (NCBI):</b>	3485
<b>Synonyms:</b>	IGFBP2; IBP2; IGF-BP53

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.

## Sequence

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EVLFRCPPT PERLAACGPP PVAPPAAVAA VAGGARMPCA
ELVREPGCGC CSVCARLEGE ACQVYTPRCG QGLRCYPHPG
SELPLQALVM GEGTCEKRRD AEYGASPEQV ADNGDDHSEG
GLVENHVDST MNMLGGGSA GRKPLKSGMK ELAVFREKVT
EQHRQMGKGG KHHLGLEEPK KLRPPPARTP CQOELDQVLE
RISTMRLPDE RGPLEHLYSL HIPNCDKHGL YNLKQCKMSL
NGQRGECWCV NPNTGKLIQG APTIRGDPEC HLFYNEQQEA
RGVHTQRMQ

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## Database References

<b>Protein RefSeq:</b>	NP_000588.2
<b>Uniprot ID:</b>	P18065
<b>mRNA RefSeq:</b>	NM_000597

## Product Specifications

<b>Expressed in</b>	Insect cells
<b>Purity</b>	> 98% by SDS-PAGE & HPLC analyses
<b>Endotoxin level</b>	< 0.1 ng /µg of protein (<1EU/µg).
<b>Formulation</b>	lyophilized
<b>Length (aa):</b>	289
<b>MW:</b>	31.5 kDa

**Stability:** The lyophilized protein is stable at room temperature for 1 month and at 4°C for 6 months. Reconstituted working aliquots are stable for 1 week at 2°C to 8°C and for 3 months at -20°C to -80°C.

**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.



**AVOID REPEATED FREEZE AND THAW CYCLES!**

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