

## IGFBP-2 Protein, Human, Recombinant (aa 40-325. His)

### General Information

Synonyms:	IBP-2;BP-2;Insulin-like growth factor-binding protein 2
Protein Construction:	Phe40-Gln325
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P18065
Molecular Weight:	6~20 kDa (Reducing conditions)

### QC Testing

Biological Activity:	ED 50 < 2.0 µg/ml, measured in a bioassay using FDC-P1 cells in the presence of 15.0 ng/ml human IGF-II.
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	< 0.2 EU/µg of protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 µm filtered solution in PBS.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

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.

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