

# Recombinant Human Insulin-like Growth Factor-Binding Protein 5

## Product Information

### Cat

CGF-039

### Product Name

Recombinant Human Insulin-like Growth Factor-Binding Protein 5

### GeneID

3488

### Source

Escherichia coli.

### Molecular Weight

Approximately 28.6 kDa, a single non-glycosylated polypeptide chain containing 252 amino acids.

### AA Sequence

LGSFVHCEPC DEKALSMCPP SPLGCELVKE PGCGCCMTCA LAEGQSCGVY TERCAQGLRC  
LPRQDEEKPL HALLHGRGVC LNEKSYREQV KIERDSREHE EPTSEMAEE TYSKIFRPK HTRISELKAE  
AVKKDRRKKL TQSKFVGGAE NTAHPRIISA PEMRQESEQG PCRRHMEASL QELKASPRMV  
PRAVYLPNCD RKGfyKRKQC KPSRGRKRGi CWCVDKYGMK LPGMEYVDGD FQCHTFDSSN VE

### Purity

> 96 % by SDS-PAGE and HPLC analyses.

### Biological Activity

Fully biologically active when compared to standard. The ED50 as determined by its ability to inhibit IGF-II induced proliferation of MCF-7 cells is less than 0.4 µg/ml, corresponding to a specific activity of > 2500 IU/mg in the presence of 15 ng/ml of rHuIGF-II.

### Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

## Recombinant Human Insulin-like Growth Factor-Binding Protein 5

### Formulation

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Lyophilized from a 0.2 µm filtered concentrated solution in 10 mM Sodium Citrate, pH 3.0.

### Endotoxin

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Less than 0.1 EU/µg of rHuIGF-BP5 as determined by LAL method.

### Reconstitution

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We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

### Stability & Storage

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Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

### Usage

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This material is offered by Creative Biomart for research, For research and further manufacturing use only.

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