



# Recombinant Human IGFBP-5 (C-6His)

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|------------------------|---|
| <b>Catalog #</b>       | EPT001  |
| <b>Expression Host</b> | Human Cells   |
| <b>DESCRIPTION</b>     | Recombinant Human Insulin-Like Growth Factor-Binding Protein 5 is produced by our Mammalian expression system and the target gene encoding Leu21-Glu272 is expressed with a 6His tag at the C-terminus. |
| <b>Accession</b>       | P24593  |
| <b>Synonyms</b>        | Insulin-Like Growth Factor-Binding Protein 5; IBP-5; IGF-Binding Protein 5; IGFBP-5; IGFBP5; IBP5   |
| <b>Mol Mass</b>        | 29.61 KDa   |
| <b>AP Mol Mass</b>     | 30-40 KDa, reducing conditions  |
| <b>Purity</b>          | Greater than 95% as determined by reducing SDS-PAGE.  |
| <b>Endotoxin</b>       | Less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.  |
| <b>FORMULATION</b>     | Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.   |





## RECONSTITUTION

Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/ml.

Dissolve the lyophilized protein in distilled water.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

## SHIPPING

The product is shipped at ambient temperature.

Upon receipt, store it immediately at the temperature listed below.

## STORAGE

Lyophilized protein should be stored at  $< -20^{\circ}\text{C}$ , though stable at room temperature for 3 weeks.

Reconstituted protein solution can be stored at  $4-7^{\circ}\text{C}$  for 2-7 days.

Aliquots of reconstituted samples are stable at  $< -20^{\circ}\text{C}$  for 3 months.

## BACKGROUND

Insulin-Like Growth Factor-Binding Protein 5 (IGFBP-5) is a secreted protein that belongs to the insulin-like growth factor (IGF) binding proteins superfamily. Members of this family prolong the half-life of the IGFs. They have been shown to either inhibit or stimulate the growth promoting effects of the IGFs on





cell culture. They alter the interaction of IGFs with their cell surface receptors. IGFBP-5 contains one IGFBP N-terminal domain and one thyroglobulin type-1 domain. IGFBP-5 is expressed by fibroblasts, myoblasts and Osteosarcoma. It is also present at lower levels in liver, kidney, and brain.

## **SDS-PAGE**

