

IGFBP-5 Protein, Human

Cat. No.:	HY-P7021
Synonyms:	rHuIGF-BP5; IBP-5
Species:	Human
Source:	CHO
Accession:	P24593 (L21-E272)
Gene ID:	3488
Molecular Weight:	30-40 kDa

PROPERTIES

AA Sequence	L G S F V H C E P C D E K A L S M C P P S P L G C E L V K E P G C G C C M T C A L A E G Q S C G V Y T E R C A Q G L R C L P R Q D E E K P L H A L L H G R G V C L N E K S Y R E Q V K I E R D S R E H E E P T T S E M A E E T Y S P K I F R P K H T R I S E L K A E A V K K D R R K K L T Q S K F V G G A E N T A H P R I I S A P E M R Q E S E Q G P C R R H M E A S L Q E L K A S P R M V P R A V Y L P N C D R K G F Y K R K Q C K P S R G R K R G I C W C V D K Y G M K L P G M E Y V D G D F Q C H T F D S S N V E
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against 20 mM PB, 150mM NaCl, pH7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Insulin-like Growth Factor-Binding Proteins (IGFBPs) modulate the actions of secreted insulin-like growth facts (IGFs) by binding to them and increase the IGF halflife in the extracellular milieu and circulation by sequestering them in this bound form. IGFBPs either enhance or inhibit IGF actions on target cells; the individual IGFBPs either inhibit or potentiate IGF effects on osteoblasts in bone. Human Insulin-like Growth Factor-Binding Protein 5 (rhIGFBP-5) is a unique and most abundant IGFBP stored in bone, having a high specific binding affinity for hydroxyapatite and extracellular matrix proteins,
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therefore fixing it and its bound IGFs within bone. rhIGFBP-5 consistently stimulates osteoblast cell proliferation in vitro, thus increasing the number of osteoblasts^[1].

REFERENCES

[1]. Richman C, et al. Recombinant human insulin-like growth factor-binding protein-5 stimulates bone formation parameters in vitro and in vivo. Endocrinology. 1999 Oct;140(10):4699-705.

Caution: Product has not been fully validated for medical applications. For research use only.

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