



IGFBP-5 Protein, Human

Cat. No.: HY-P7021

Synonyms: rHuIGF-BP5; IBP-5

Species: Human СНО Source:

P24593 (L21-E272) Accession:

Gene ID: 3488 30-40 kDa Molecular Weight:

PROPERTIES

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ΛΛ	500	uence	ı.
AA	Seu	uence	

LGSFVHCEPC DEKALSMCPP SPLGCELVKE PGCGCCMTCA LAEGQSCGVY TERCAQGLRC LPRQDEEKPL HALLHGRGVC LNEKSYREQV KIERDSREHE EPTTSEMAEE TYSPKIFRPK HTRISELKAE AVKKDRRKKL TQSKFVGGAE NTAHPRIISA PEMRQESEQG PCRRHMEASL PRAVYLPNCD QELKASPRMV RKGFYKRKQC K P S R G R K R G I CWCVDKYGMK LPGMEYVDGD

FQCHTFDSSN 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.

Reconsititution

It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH₂O. 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.

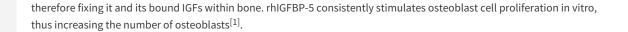
Shipping

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,



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.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA

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