

IGFBP-5 Protein, Human (Biotinylated, HEK293, His-Avi)

Cat. No.:	HY-P72378
Synonyms:	Insulin-Like Growth Factor-Binding Protein 5; IBP-5; IGF-Binding Protein 5; IGFBP-5; IGFBP5; IBP5
Species:	Human
Source:	HEK293
Accession:	P24593 (L21-E272)
Gene ID:	3488
Molecular Weight:	32-45 kDa

PROPERTIES

AA Sequence	<pre> 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 </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 300 mM NaCl, pH 7.4.
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.
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	IGFBP-5 protein assumes a crucial role in regulating the activity of insulin-like growth factors (IGFs) by extending their half-life. Within cell culture, IGFBP-5 has demonstrated the ability to either inhibit or stimulate the growth-promoting effects of IGFs. This dual regulatory function underscores the complexity of IGFBP-5's influence on cellular processes. Importantly, IGFBP-5 achieves these effects by modulating the interaction between IGFs and their cell surface receptors, thereby fine-tuning the signaling pathways associated with growth and development. The intricate interplay between IGFBP-5 and IGFs highlights the nuanced control mechanisms that govern cellular responses to growth factors, offering insights into the
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multifaceted role of IGFBP-5 in the regulation of cellular growth and proliferation.

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

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