IGFBP-5 Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P77394
Synonyms:	Insulin-like growth factor-binding protein 5; IBP-5; IGFBP-5; IBP5
Species:	Cynomolgus
Source:	HEK293
Accession:	G7PLE3 (L21-E272)
Gene ID:	101926781
Molecular Weight:	Approximately 35 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 V 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
Biological Activity	Measured by its ability to inhibit the biological activity of IGF-I on MCF 7 human breast cancer cells. The ED_{50} for this effect is 1.063 μg/mL in the presence of 14 ng/mL rhIGF-I, corresponding to a specific activity is 940.734 U/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
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 ddH_2O. 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	IGFBP-5 protein plays a pivotal role in modulating the activity of insulin-like growth factors (IGFs) by extending their half-life. Within cell culture, IGFBP-5 exhibits a dual regulatory function, demonstrating the capacity to either inhibit or stimulate

the growth-promoting effects of IGFs. This dynamic influence underscores the intricacy of IGFBP-5's impact on cellular processes. Notably, IGFBP-5 achieves these regulatory effects by modifying the interaction between IGFs and their cell surface receptors, thereby finely regulating the signaling pathways associated with cellular growth and development. The nuanced interplay between IGFBP-5 and IGFs highlights the sophisticated control mechanisms that govern cellular responses to growth factors, shedding light on the multifaceted role of IGFBP-5 in orchestrating cellular growth and proliferation.

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