

IGFBP-5 Protein, Canine (HEK293, Fc)

Cat. No.:	HY-P76410
Synonyms:	Insulin-like growth factor-binding protein 5; IGFBP5
Species:	Canine
Source:	HEK293
Accession:	F1PEQ5 (L20-E271)
Gene ID:	610316
Molecular Weight:	Approximately 40&43&45&65 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 A 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 this effect is 1.468 µg/mL, corresponding to a specific activity is 681.199 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.
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	IGFBP-5 is only one of a family of six IGFBPs. IGFBP-5 is a 29 kDa phosphorylated and glycosylated protein, which is secreted by a wide variety of cell types during different growth conditions. IGFBP-5, the most conserved IGFBP, is the major protein
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secreted by skeletal muscles. IGFBP-5 enables fibronectin binding and is involved in regulation of insulin-like growth factor receptor signaling pathway^{[1][2][3][4]}.

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

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