

IGFBP-6 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P70357
Synonyms:	rMuInsulin-like growth factor-binding protein 6/IGFBP-6, His; Insulin-like growth factor-binding protein 6; IBP-6; IGF-binding protein 6; IGFBP-6; Igfbp6; IBP6; IGF binding protein 6; insulin-like growth factor-binding protein 6
Species:	Mouse
Source:	HEK293
Accession:	P47880 (A26-G238)
Gene ID:	16012
Molecular Weight:	Approximately 28.0 kDa

PROPERTIES

AA Sequence	<pre> A L A G C P G C G A G M Q T G C R G G C V E E E D A G S P A D G C T E A G G C L R R E G Q P C G V Y S P K C A P G L Q C Q P R E N E E A P L R A L L I G Q G R C Q R A R G P S E E T T K E S K P Q G G A S R S R D T N H R D R Q K N P R T S A A P I R P N P V Q D S E M G P C R R H L D S V L Q Q L Q T E V F R G G A R G L Y V P N C D L R G F Y R K Q Q C R S S Q G N R R G P C W C V D P M G Q P L P V S P D G Q G S T Q C S A R S S G </pre>
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-6 protein assumes a pivotal role in regulating the activity of insulin-like growth factors (IGFs) by extending their half-life. In cell culture, IGFBP-6 has been demonstrated to exert a dual regulatory influence, capable of either inhibiting or stimulating the growth-promoting effects of IGFs. This versatile function underscores the complexity of IGFBP-6 in modulating cellular processes. Furthermore, IGFBP-6 plays a role in altering the interaction between IGFs and their cell surface receptors. Beyond its role in IGF regulation, IGFBP-6 actively participates in cellular signaling by activating the MAPK pathway and inducing cell migration. Notably, it interacts with PHB2 via its C-terminal domain, highlighting its involvement
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in intricate protein-protein interactions that contribute to the multifaceted cellular responses associated with growth regulation and migration.

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

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