IGFBP-1 Protein, Rhesus Macaque (HEK293, His)

Cat. No.:	HY-P74848
Synonyms:	Insulin-like growth factor-binding protein 1; IGFBP1
Species:	Rhesus Macaque
Source:	HEK293
Accession:	XP_001085935 (A48-N281)
Gene ID:	696994
Molecular Weight:	Approximately 30 kDa

PROPERTIES

AA Sequence	A P W Q C A P C S A E K L A L C P P V P A S C S E V T R S A G C G C C P M C A L P L G A A C G V A T A R C A R G L S C R A L P G E Q Q P L H A L T R G Q G A C V Q D S D A S A S N A E A A G S P E S P E S T E I T E E E L L D N F H L M A P S E E D H S T L W D A I G T Y D S S K A V H V T N V K K W K E P C R I E L Y R V V E S L T K A Q E T S G E D I S K F Y L P N C N K N G F Y H S R Q C E T S L A G E E R L C W C V Y P W N G K R I P G S P E I R G D P N C Q T Y F N V Q N
Biological Activity	Measured by its binding ability in a functional ELISA. When Recombinant Rhesus IGFBP1 Protein is immobilized at 10 μg/mL (100 μL/well) can bind Biotinylated Recombinant human IGF1. The ED_{50} for this effect is 81.21 ng/mL.
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	Insulin-like growth factor-binding protein 1 (IGFBP-1), a member of the insulin-like growth factor-binding protein (IGFBP) family, contributes to the regulation of IGFs by extending their half-life and modulating their growth-promoting effects on cell culture, either inhibiting or stimulating these effects. This protein plays a crucial role in altering the interaction between

IGFs and their cell surface receptors. Additionally, IGFBP-1 demonstrates the ability to promote cell migration, indicating its involvement in cellular processes beyond growth regulation. Notably, it exhibits equal binding affinity for both IGF1 and IGF2, highlighting its versatile role in modulating the biological activities of insulin-like growth factors[1].

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