IGFBP-4 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P74845
Synonyms:	BP-4; HT29-IGFBP; IBP4; Insulin-like growth factor-binding protein 4
Species:	Mouse
Source:	HEK293
Accession:	P47879 (M1-E254)
Gene ID:	16010
Molecular Weight:	Approximately 38 kDa

PROPERTIES

AA Sequence	M L P F G L V A A L L L A A G P R P S L G D E A I H C P P C S E E K L A R C R P P V G C E E L V R E P G C G C C A T C A L G L G M P C G V Y T P R C G S G M R C Y P P R G V E K P L R T L M H G Q G V C T E L S E I E A I Q E S L Q T S D K D E S E H P N N S F N P C S A H D H R C L Q K H M A K I R D R S K M K I V G T P R E E P R P V P Q G S C Q S E L H R A L E R L A A S Q S R T H E D L F I I P I P N C D R N G N F H P K Q C H P A L D G Q R G K C W C V D R K T G V K L P G G L E P K G E L D C H Q L A D S F Q E
Biological Activity	Measured in a serum free cell proliferation assay using MCF7 human breast adenocarcinoma cells (Karey, K.P. et al. 1988, Cancer Research 48: 4083.) . The ED_{50} for this effect is typically 0.1-0.6 μg/mL.
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	IGFBP-4 protein plays a pivotal role in modulating the activity of insulin-like growth factors (IGFs) by extending their half-life. Demonstrating a dual regulatory influence in cell culture, IGFBP-4 can either inhibit or stimulate the growth-promoting

effects of IGFs, underscoring its versatile impact on cellular processes. Furthermore, IGFBP-4 is involved in altering the interaction between IGFs and their cell surface receptors. Notably, it exhibits a preference for binding to IGF2 over IGF1, indicating a specific affinity for particular IGF isoforms. This selective binding profile emphasizes the nuanced nature of IGFBP-4's role in fine-tuning the signaling pathways associated with IGF-mediated cellular responses.

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