

## IGFBP-6 Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P73141
<b>Synonyms:</b>	Insulin-like growth factor-binding protein 6; IBP-6; IGFBP-6; IBP6
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	P24592 (M1-G240)
<b>Gene ID:</b>	3489
<b>Molecular Weight:</b>	Approximately 36 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>M T P H R L L P P L    L L L L A L L L A A    S P G G A L A R C P    G C G Q G V Q A G C</p> <p>P G G C V E E E D G    G S P A E G C A E A    E G C L R R E G Q E    C G V Y T P N C A P</p> <p>G L Q C H P P K D D    E A P L R A L L L G    R G R C L P A R A P    A V A E E N P K E S</p> <p>K P Q A G T A R P Q    D V N R R D Q Q R N    P G T S T T P S Q P    N S A G V Q D T E M</p> <p>G P C R R H L D S V    L Q Q L Q T E V Y R    G A Q T L Y V P N C    D H R G F Y R K R Q</p> <p>C R S S Q G Q R R G    P C W C V D R M G K    S L P G S P D G N G    S S S C P T G S S G</p>
<b>Biological Activity</b>	<ol style="list-style-type: none"> <li>1. Measured by its ability to bind human IGF1 in functional ELISA.</li> <li>2. Measured by its ability to bind human IGF2 in functional ELISA.</li> <li>3. Measured by its ability to inhibit the biological activity of IGFII on MCF7 human breast adenocarcinoma cells (Karey, K.P. et al. (1988) Cancer Research 48:4083.). The ED<sub>50</sub> for this effect is typically 1-5 µg/mL in the presence of 14 ng/mL human IGFII.</li> </ol>
<b>Appearance</b>	Solution.
<b>Formulation</b>	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.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	N/A.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Shipping with dry ice

### DESCRIPTION

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**Background**

IGFBP-6 Protein, a member of the insulin-like growth factor-binding proteins (IGFBPs), assumes a pivotal role in regulating the half-life of insulin-like growth factors (IGFs) and modulating their effects on cell culture, exhibiting the ability to either inhibit or stimulate IGF-induced growth-promoting responses. This regulatory function is achieved through the alteration of IGFs' interaction with their respective cell surface receptors. Beyond its role in modulating IGF signaling, IGFBP-6 also exhibits additional cellular effects, such as the activation of the MAPK signaling pathway and the induction of cell migration. Notably, IGFBP-6 interacts with PHB2 via its C-terminal domain, highlighting its involvement in protein-protein interactions that may contribute to diverse cellular processes. The multifaceted actions of IGFBP-6 underscore its significance in orchestrating intricate cellular responses associated with growth, migration, and signaling pathways.

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

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