

IGFBP-1 Protein, Human (HEK293, His)

Cat. No.:	HY-P72608
Synonyms:	Insulin-like growth factor-binding protein 1; IBP-1; IGF-binding protein 1; IGFBP-1; PP12
Species:	Human
Source:	HEK293
Accession:	P08833 (A26-N259)
Gene ID:	3484
Molecular Weight:	30-35 kDa

PROPERTIES

AA Sequence	<pre> A P W Q C A P C S A E K L A L C P P V S 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 E S D A S A P H A A E 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 I L W D A I S T Y D G S K A L H V T N I K K W K E P C R I E L Y R V V E S L A K A Q E T S G E E I S K F Y L P N C N K N G F Y H S R Q C E T S M D G E A G 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 I Y F N V Q N </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-1 protein assumes a crucial role in modulating the activity of insulin-like growth factors (IGFs) by extending their half-life. With a dual regulatory influence in cell culture, IGFBP-1 can either inhibit or stimulate the growth-promoting effects of IGFs, highlighting its versatile impact on cellular processes. Additionally, IGFBP-1 is involved in altering the interaction between IGFs and their cell surface receptors, contributing to the fine-tuning of signaling pathways associated with IGF-mediated cellular responses. Notably, IGFBP-1 promotes cell migration, underscoring its broader involvement in cellular dynamics. Importantly, it exhibits an equal affinity for binding to both IGF1 and IGF2, indicating its ability to interact with
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multiple IGF isoforms and emphasizing the complexity of IGFBP-1's role in modulating IGF signaling pathways.

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

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