IGFBP-1 Protein, Mouse (P. pastoris, N-His)

Cat. No.:	HY-P700486
Synonyms:	Igfbp1; Igfbp-1; Insulin-like growth factor-binding protein 1; IBP-1; IGF-binding protein 1; IGFBP-1
Species:	Mouse
Source:	P. pastoris
Accession:	P47876 (A26-N272)
Gene ID:	16006
Molecular Weight:	44 kDa

PROPERTIES

AA Sequence	A P Q P W H C A P C T A E R L G L C P P V P A S C P E I S R P A G C G C C P T C A L P M G A A C G V A T A R C A Q G L S C R A L P G E P R P L H A L T R G Q G A C V P E P A A P A T S T L F S S Q H E E A K A A V V S A D E L S E S P E M T E E Q L L D S F H L M A P S R E D Q P I L W N A I S T Y S S M R A R E I A D L K K W K E P C Q R E L Y K V L E R L A A A Q Q K A G D E I Y K F Y L P N C N K N G F Y H S K Q C E T S L D G E A G L C W C V Y P W S G K K I P G S L E T R G D P N C H Q Y F N V H N
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0.
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.
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, an insulin-like growth factor-binding protein, 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.

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

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