

## IGFBP-1 Protein, Mouse (SUMO, His)

<b>Cat. No.:</b>	HY-P700256
<b>Synonyms:</b>	Insulin-like growth factor-binding protein 1; IBP-1; IGF-binding protein 1; IGFBP-1; PP12
<b>Species:</b>	Mouse
<b>Source:</b>	E. coli
<b>Accession:</b>	P47876 (A26-N272)
<b>Gene ID:</b>	16006
<b>Molecular Weight:</b>	Approximately 43 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> 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           </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	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.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA