IGFBP-7 Protein, Mouse (HEK293, Fc)

Cat. No.:	HY-P74844
Synonyms:	IBP-7; IGFBP7; IGFBP-7v; Insulin-like growth factor binding protein 7
Species:	Mouse
Source:	HEK293
Accession:	AAH92538.1 (S26-L281)
Gene ID:	29817
Molecular Weight:	Approximately 53.3-60 kDa

PROPERTIES

AA Sequence	S S S D A C G P C V P A S C P A L P R L G C P L G E T R D A C G C C P V C A R G E G E P C G G G A A G R G H C A P G M E C V K S R K R R K G K A G A A A G G P A T L A V C V C K S R Y P V C G S N G I T Y P S G C Q L R A A S L R A E S R G E K A I T Q V S K G T C E Q G P S I V T P P K D I W N V T G A K V F L S C E V I G I P T P V L I W N K V K R D H S G V Q R T E L L P G D R E N L A I Q T R G G P E K H E V T G W V L V S P L S K E D A G E Y E C H A S N S Q G Q A S A A A K I T V V D A L H E I P L K K G E G A Q L
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized mouse IGFBP-7 at 0.5 μg/mL (100 μL/well) can bind biotinylated CCL21. The ED_{50} for this effect is 8.153 ng/mL.
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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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	Insulin-like growth factor binding protein 7 (IGFBP-7) is a member of the IGFBP Family. IGFBP-7 is high expressed in liver, kidney, bone and muscle, and the expression level is higher in renal tubules. IGFBP7 exhibits a relatively low affinity for

binding to both IGF-I and IGF-II compared to IGFBPs 1-6. Furthermore, it has the capacity to stimulate the production of prostacyclin (PGI2) and enhance cell adhesion. IGFBP-7 interacts with Insulin-like growth factor 1, VPS24, and the IGF-1 receptor. Its wider distribution in normal tissue and lower expression in several cancer cells indicate that IGFBP-7 may function as a growth-suppressing factor, as well as an IGF-binding protein[1][2][3].

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA