Glypican-1/GPC1 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P70928
Synonyms:	Glypican-1; Gpc1
Species:	Mouse
Source:	HEK293
Accession:	Q9QZF2 (D24-S529)
Gene ID:	14733
Molecular Weight:	Approximately 60 kDa

PROPERTIES

AA Sequence	D P A S K S R S C S E V R Q I Y G A K G F S L S D V P Q A E I S G E H L R I C P Q G Y T C C T S E M E E N L A N H S R M E L E S A L H D S S R A L Q A T L A T Q L H G I D D H F Q R L L N D S E R T L Q E A F P G A F G D L Y T Q N T R A F R D L Y A E L R L Y Y R G A N L H L E E T L A E F W A R L L E R L F K Q L H P Q L L P D D Y L D C L G K Q A E A L R P F G D A P R E L R L R A T R A F V A A R S F V Q G L G V A S D V V R K V A Q V P L A P E C S R A I M K L V Y C A H C R G V P G A R P C P D Y C R N V L K G C L A N Q A D L D A E W R N L L D S M V L I T D K F W G P S G A E S V I G G V H V W L A E A I N A L Q D N K D T L T A K V I Q A C G N P K V N P H G S G P E E K R R R G K L A L Q E K P S T G T L E K L V S E A K A Q L R D I Q D F W I S L P G T L C S E K M A M S P A S D D R C W N G I S K G R Y L P E V M G D G L A N Q I N N P E V E V D I T K P D M T I R Q Q I M Q L K I M T N R L R G A Y G G N D V D F Q D A S D D G S G S G S G G G C P D D T C G R R V S K K S S S S R T P L T H A L P G L S E Q E G Q K T S
Biological Activity	2 μg/mL (100 μL/well) of immobilized Human FGFb can bind Mouse GPC1-His with an ED_{50} value of 0.4-2 μg/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	Glypican-1 (GPC1) Protein is a cell surface proteoglycan characterized by the presence of heparan sulfate. It binds to alpha-4 (V) collagen through its heparan sulfate side chains, playing a role in Schwann cell myelination. Additionally, GPC1 may act as a catalyst, enhancing the conversion rate of prion protein PRPN(C) to PRNP(Sc) by associating with both forms of PRPN through its heparan sulfate side chains, facilitating their interaction and targeting them to lipid rafts. GPC1 is essential for proper skeletal muscle differentiation, as it sequesters FGF2 in lipid rafts, preventing its binding to receptors (FGFRs) and inhibiting FGF-mediated signaling. Moreover, GPC1 exhibits the ability to bind Cu(2+) or Zn(2+) ions.

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