Glypican-2/GPC2 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P77957
Synonyms:	Glypican-2; 2410016G05Rik; Cerebroglycan; GPC2
Species:	Mouse
Source:	HEK293
Accession:	Q8BKV1 (H22-S556)
Gene ID:	71951
Molecular Weight:	32-35 kDa

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	Glypican-2 (GPC2) Protein is a cell surface proteoglycan characterized by the presence of heparan sulfate. It may play a role in the motile behaviors of developing neurons. GPC2 interacts with Pleiotrophin (PTN) through its heparan sulfate side chains, promoting neurite outgrowth. This interaction involves the binding of PTN with chondroitin sulfate of proteoglycans, leading to the release of protein tyrosine phosphatase receptor sigma (PTPRS) from chondroitin sulfate proteoglycans (CSPGs) and subsequent binding with heparan sulfate of GPC2. Furthermore, GPC2 interacts with Midkine (MDK) through its heparan sulfate chain, inducing GPC2 clustering. This interaction is inhibited by heparin followed by chondroitin sulfate E and induces neuronal cell adhesion and neurite outgrowth.

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