

## Glypican-1/GPC1 Protein, Human (HEK293, His)

Cat. No.:	HY-P70343
Synonyms:	rHuGlypican-1/GPC1, His; Glypican-1; GPC1
Species:	Human
Source:	HEK293
Accession:	P35052 (D24-T529)
Gene ID:	2817
Molecular Weight:	65-150 kDa

### PROPERTIES

#### AA Sequence

DPASKSRSCG	EVRQIYGAKG	FSLSDVPQAE	ISGEHLRIPC
QGYTCCTSEM	EENLANRSHA	ELETALRDSS	RVLQAMLATQ
LRSFDDHFQH	LLNDSERTLQ	ATFPGAFGEL	YTQNARAFRD
LYSELRLYYR	GANLHLEETL	AEFWARLLER	LFKQLHPQLL
LPDDYLDCLG	KQAEALRPFQ	EAPRELRLRA	TRAFVAARSF
VQGLGVASDV	VRKVAQVPLG	PECSRAVMKL	VYCAHCLGVP
GARPCPDYCR	NVLKGC LANQ	ADLDAEWRNL	LDSMVLITDK
FWGTSGVESV	IGSVHTWLAE	AINALQDNRD	TLTAKVIQGC
GNPKVNPQGP	GPEEKRRRGK	LAPRERPPSG	TLEKLVSEAK
AQLRDVQDFW	ISLPGTLCSE	KMALSTASDD	RCWNGMARGR
YLPEVMGDGL	ANQINNPEVE	VDITKPDMTI	RQQIMQLKIM
TNRLRSAYNG	NDVDFQDASD	DGSGSGSGDG	CLDDLCSRKV
SRKSSSSRTP	LTHALPGLSE	QEGQKT	

#### 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.

#### Reconstitution

It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH<sub>2</sub>O. 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

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**Background**

Glypican-1 (GPC1) Protein is a cell surface proteoglycan characterized by its association with heparan sulfate. It binds alpha-4 (V) collagen through the heparan sulfate side chains and plays a role in Schwann cell myelination. Additionally, GPC1 may act as a catalyst in the conversion of prion protein PRPN(C) to PRNP(Sc) by associating with both forms of PRPN, targeting them to lipid rafts, and facilitating their interaction. Moreover, 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.

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

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