

## 32-8816: Recombinant Human Glypican-1/GPC1(N-6His)(Discontinued)

**Gene :** GPC1  
**Gene ID :** 2817  
**Uniprot ID :** P35052

### Description

Source: Human cells.  
MW :57.7kD.

Recombinant Human Glypican-1 is produced by our Mammalian expression system and the target gene encoding Asp24-Thr529 is expressed fused with a 6His tag at the N-terminus. The Glypicans are a small multigene family of GPI-linked proteoglycans that play a key role in growth factor signaling. Human Glypican 1 (GPC1) is synthesized as a 558 amino acid (aa) preproprecursor that contains a 23 aa signal sequence, a 507 aa mature segment, and a 28 aa C-terminal prosegment. There are two potential N-linked and four potential O-linked sites for glycosylation or glycanation. There are potentially two heparan sulfate (HS) modifications on GPC1 that could contribute to a native molecular weight of approximately 200 kDa. Mature human GPC1 shares 91% aa identity with mature mouse GPC1. Cells known to express GPC1 include neurons, smooth and skeletal muscle cells, keratinocytes, osteoblasts, Schwann cells, immature dendritic cells, and tumor, plus tumor-associated vascular endothelial cells. The function of GPC1 is complex and varied. As a proteoglycan, it appears to make use of its HS adduct to impact select growth factor activity. This is accomplished by having juxtramembrane HS attachment sites, and a flexible, GPI-linkage.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** HHHHHHENLYFQGDPAKSRSCGEVQRQYGAKGFSLSVPAEISGEHLRCPQGYTCCTSEMEENLANRSHA  
ELETALRDSSRVLQAMLATQLRSFDDHFQHLNDSERTLQATFPGAFGELYTQNAARAFRDLYSELRLYYRGANL  
HLEETLAEFWARLLERLFKQLHPQLLLPDDYLDCLGKQAEALRPFGEAPRELRLRATRAFAARSFVQGLGVAS  
DVVRKVAQVPLGPECSRAVMKLVYCAHCLGVPGARPCPDYCRNVLKGCLANQADLDAEWRNLLDSMVLITDK  
FWGTSGVESVIGSVHTWLAEAINALQDNRDTLTAKVIQCGNPKVNPQGGPPEEKRRRGKLA PRERPPSGTLE  
KLVSEAKAQLRDVQDFWISLPGTLCSEKMASTASDDRCWNGMARGRYLPEVMGDGLANQINNPEVEVDITK  
PDMTIRQQIMQLKIMTNRLRSAYNGNDVDFQDASDDGSGSGSGDGCLDDLCSRKVSRSKSSSRTPLTHALPG  
LSEQEGQKT

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.