

## GPC1 Protein, Mouse, Recombinant (His)

### General Information

|                       |                             |
|-----------------------|-----------------------------|
| Synonyms:             | Gpc1;Glypican-1             |
| Protein Construction: | Asp24-Ser529                |
| Species:              | Mouse                       |
| Expression Host:      | HEK293 Cells                |
| Accession:            | Q9QZF2                      |
| Molecular Weight:     | 56 KDa (reducing condition) |
| AA Sequence:          | Asp24-Ser529                |

### QC Testing

|                      |                                                                                                                                                                                       |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Biological Activity: | Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first. |
| Endotoxin:           | < 0.1 ng/μg (1 EU/μg) as determined by LAL test.                                                                                                                                      |
| Formulation:         | Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4.                                                                                                |

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Glypican-1 is a cell membrane protein and belongs to the glypican family. The protein may act as a catalyst in increasing the rate of conversion of prion protein PRPN(C) to PRNP(Sc) via associating (via the heparan sulfate side chains) with both forms of PRPN, targeting them to lipid rafts and facilitating their interaction. It is required for proper skeletal muscle differentiation by sequestering FGF2 in lipid rafts preventing its binding to receptors (FGFRs) and inhibiting the FGF-mediated signaling.

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