

Glypican 3/GPC3 Protein, Human, Recombinant (His) V2

General Information

Synonyms:	MXR7;GTR2-2;SDYS;SGBS;DGSX;SGB;Glypican 3;SGBS1;OCI-5
Protein Construction:	Gln25-His559
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P51654-1
Molecular Weight:	61.6 kDa (Predicted); 42 kDa, 70-115 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Immobilized Human GPC3, His Tag at 0.5 µg/ml (100 µl/Well). Dose response curve for Anti-GPC3 Antibody, hFc Tag with the EC50 of 4.7 ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized 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-3 is a protein, which is encoded by the GPC3 gene in humans. The protein core of GPC3 consists of two subunits, where the N-terminal subunit has a size of ~40 kDa and the C-terminal subunit is ~30 kDa. Glypican 3 is a potential therapeutic target for treating liver cancer and other cancers. Several therapeutic anti-GPC3 antibodies have been developed.

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