



### Synonym

GPC3,OCI5,Glypican-3,GTR2-2,MXR7,DGSX,SDYS ,SGB,SGBS,SGBS1

### Source

Cynomolgus Glypican 3 Protein, Llama IgG2b Fc Tag(GP3-C5259) is expressed from human 293 cells (HEK293). It contains AA Gln 25 - His 559 (Accession # [XP\\_005594665.1](#)).

Predicted N-terminus: Gln 25 & Ser 359

### Molecular Characterization

Glypican 3(Gln 25 - His 559) XP_005594665.1	LlamaFc(Glu1 - Ser243) AA73259.1
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This protein carries a llama IgG2b Fc tag at the C-terminus.

This protein contains a furin-like convertase cleavage site, 355-RQYR-358, and will be partially processed into N and C-terminal fragment with calculated MW of 38.1 kDa and 50.5 kDa respectively. The protein migrates as 40 kDa, 60 kDa and 100-120 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

### Endotoxin

Less than 0.01 EU per µg by the LAL method.

### Purity

>90% as determined by SDS-PAGE.

### Formulation

Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

### Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

### Storage

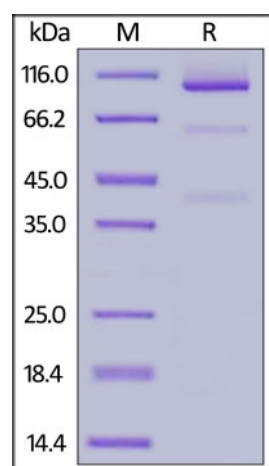
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

### SDS-PAGE

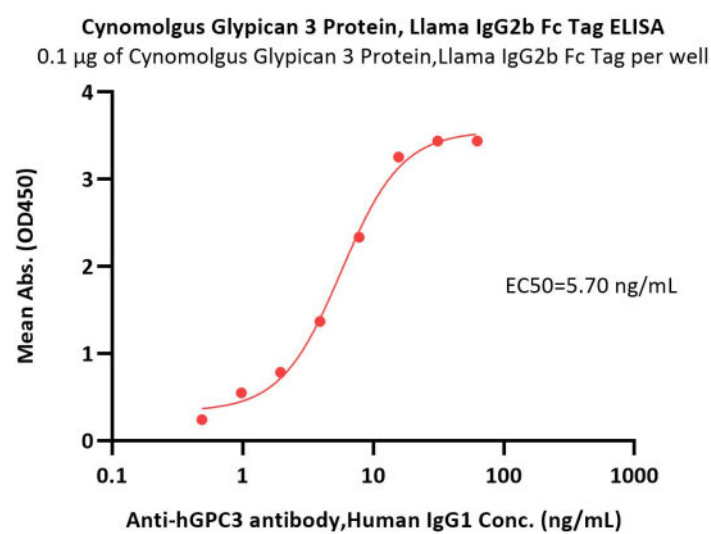


Cynomolgus Glypican 3 Protein, Llama IgG2b Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

### Bioactivity-ELISA

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Immobilized Cynomolgus Glypican 3 Protein, Llama IgG2b Fc Tag (Cat. No. GP3-C5259) at 1 µg/mL (100 µL/well) can bind Anti-hGPC3 antibody, Human IgG1 with a linear range of 0.5-8 ng/mL (QC tested).

## Background

Glypican-3 (GPC3) is also known as Intestinal protein OCI-5, GTR2-2, MXR7, which belongs to the glypican family. Glypican 3 / GPC-3 is highly expressed in lung, liver and kidney. Glypican-3 inhibits the dipeptidyl peptidase activity of DPP4. Glypican-3 may be involved in the suppression/modulation of growth in the predominantly mesodermal tissues and organs, and also may play a role in the modulation of IGF2 interactions with its receptor and thereby modulate its function.

## Clinical and Translational Updates

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