

## Active Recombinant Mouse Glypican 5, His-tagged

**Cat. No.** Gpc5-5628M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Gpc5 protein was expressed in Murine myeloma cell line. Gly26-Gly549, with a C-terminal 6-His tag.
<b>Species</b>	Mouse
<b>Source</b>	Mammalian Cells
<b>Protein Length</b>	26-549 a.a.
<b>Description</b>	The glypicans (glypiated proteoglycans) are a small multigene family of GPI-linked proteoglycans that likely play a key role in embryonic morphogenesis. There are six known mammalian glypicans. They all share a common-sized protein core of 60-70 kDa, an N-terminus which likely forms a compact globular domain, 14 conserved cysteines that form multiple intrachain disulfide bonds, and a number of C-terminal N- and O-linked carbohydrate attachment sites. Based on exon organization and the location of O-linked glycosylation sites, at least two subfamilies of glypicans are known, with one subfamily containing glypicans-1, 2, 4, and 6, and another subfamily containing glypicans-3 and 5.
<b>Form</b>	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
<b>N-terminal Sequence</b>	Gly26
<b>Molecular Weight</b>	59.1 kDa

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<b>Activity</b>	Measured by its binding ability in a functional ELISA. Immobilized rm Gpc5 at 5 µg/mL (100 µL/well) can bind rhFGF-basic with a linear range of 0.16-10 ng/mL.
<b>Endotoxin Level</b>	<1.0 EU per 1 µg of the protein by the LAL method.
<b>SDS-PAGE</b>	61-65 kDa, reducing conditions.
<b>Purity</b>	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>Reconstitution</b>	Reconstitute at 100 µg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70 °C under sterile conditions after reconstitution.

## GENE INFORMATION

<b>Gene Name</b>	Gpc5 glypican 5 [ Mus musculus ]
<b>Official Symbol</b>	Gpc5
<b>Synonyms</b>	Gpc5; glypican 5; A230034F01Rik; glypican-5
<b>Gene ID</b>	103978
<b>mRNA Refseq</b>	NM_175500
<b>Protein Refseq</b>	NP_780709

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<b>UniProt ID</b>	O70206
<b>Chromosome Location</b>	14
<b>Function</b>	heparan sulfateproteoglycan binding

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