

Active Recombinant Mouse Glypican 5, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Mouse Gpc5 protein was expressed in Murine myeloma cell line. Gly26-Gly549, with a C-terminal 6-His tag.
Species	Mouse
Source	Mammalian Cells
Protein Length	26-549 a.a.
Description	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.
Form	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
N-terminal Sequence	Gly26
Molecular Weight	59.1 kDa

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Activity	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.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	61-65 kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 100 µg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.
Storage	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

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

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UniProt ID	O70206
Chromosome Location	14
Function	heparan sulfateproteoglycan binding

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