

Active Recombinant Mouse Glypican 2 (cerebroglycan), His-tagged

Cat. No. Gpc2-5625M **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Mouse Gpc2 protein was expressed in Murine myeloma cell line. Lys27-Arg358 & Ala359-Leu554, with a C-terminal 6-His tag.

Species

Mouse

Source

Mammalian Cells

Protein Length

27-358;359-554 a.a.

Description

The glypicans (GPC) constitute a family of heparan sulfate proteoglycans that are attached to the cell surface by a glycosylphosphatidylinositol (GPI) anchor. Six members of this family have been identified in mammals (GPC1-GPC6). All glypican core proteins contain an N-terminal signal peptide, a large globular cysteine-rich domain (CRD) with 14 invariant cysteine residues, a stalk-like region containing the heparan sulfate attachment sites, and a C-terminal GPI attachment site. Based on the degree of their amino acid sequence similarity, two subfamilies of glypicans have been defined.

Form

Lyophilized from a 0.2 µm filtered solution in Tris-Citrate and NaCl.

N-terminal Sequence

Lys27 & Ala359

Molecular Weight

58.9 kDa

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Activity	Measured by its binding ability in a functional ELISA. Immobilized rGpc2 at 4µg/mL (100µL/well) can bind rhMidkine with a linear range of 4-200 ng/mL.
Endotoxin Level	<1.0EU per 1µg of the protein by the LAL method.
SDS-PAGE	60 kDa, non-reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 100µg/mL in PBS.
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	Gpc2 glypican 2 (cerebroglycan)[<i>Mus musculus</i>]
Official Symbol	Gpc2
Synonyms	Gpc2; glypican 2 (cerebroglycan); 2410016G05Rik; glypican-2
Gene ID	71951
mRNA Refseq	NM_172412
Protein Refseq	NP_766000
UniProt ID	Q3TU56

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Chromosome Location	5
Function	heparan sulfateproteoglycan binding

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