

Active Recombinant Human Glypican 6, His-tagged

Cat. No. GPC6-5629H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human GPC6 protein was expressed in Murine myeloma cell line. Asp24-Arg354 & Ser355-Val527, with a C-terminal 6-His tag.
Species	Human
Source	Mammalian Cells
Protein Length	24-354;355-527 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.
N-terminal Sequence	Asp24 & Ser355
Molecular Weight	38 kDa and 20 kDa

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Activity	Measured by its binding ability in a functional ELISA. When biotinylated rmWnt-3a (0.5µg/mL, 100 µL/well) is captured on streptavidin-coated plate, rhGlypican-6 binds with an apparent KD < 10 nM.
Endotoxin Level	<1.0EU per 1µg of the protein by the LAL method.
SDS-PAGE	38 kDa and 27-29 kDa, 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	GPC6 glypican 6 [Homo sapiens]
Official Symbol	GPC6
Synonyms	GPC6; glypican 6; OMIMD1; glypican-6; glypican proteoglycan 6
Gene ID	10082
mRNA Refseq	NM_005708
Protein Refseq	NP_005699

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MIM	604404
UniProt ID	Q9Y625
Chromosome Location	13q32
Function	heparan sulfateproteoglycan binding

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