

Glypican 5 Active Protein | GPC5 active protein

Glypican 5 Protein, Human, Recombinant (His Tag)

CATALOG #
AAA257827

HOST
Baculovirus-Insect Cells

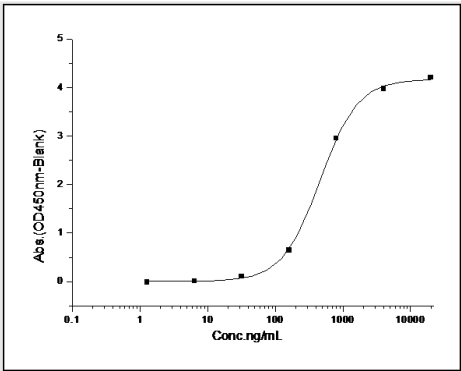
PRODUCT SYNONYMS

Glypican 5; Glypican 5 Protein; Human; Recombinant (His Tag); Human Glypican 5/GPC5 Protein (His Tag); glypican 5; GPC5 active protein

PRODUCT SPECIFICATIONS

Host	Baculovirus-Insect Cells
Purity/Purification	>92% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile 50mM Tris, 100mM NaCl, pH8.0. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Thr55 4
Species	Human
Activity	Measured by its binding ability in a functional ELISA. Immobilized human GPC5 at 5ug/ml (100uL/well) can bind human bFGF with a linear range of 0.156-2.5ng/mL.
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Glu 25
Tag	C-His
Protein Construction	A DNA sequence encoding the human GPC5 (NP_004457.1)(Met 1-Thr 554) was fused with a polyhistidine tag at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.

IMAGES



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized human GPC5 at 5 ug/ml (100 ul/well) can bind human bFGF with a linear ranger of 0.156-2.5 ng/ml.

ADDITIONAL INFORMATION

Related Product Information for GPC5 active protein	Background: Glypican-5 (GPC5), is a cell membrane protein that belongs to the glypican family. The glypicans compose a family of glycosylphosphatidylinositol-anchored heparan sulfate proteoglycans that may play a role in the control of cell division and growth regulation. So far, six members (Glypican-1/GPC1, Glypican-2/GPC2, Glypican-3/GPC3, Glypican-4/GPC4, Glypican-5/GPC5, Glypican-6/GPC6) of this family are known in the vertebrates. In the adult, Glypican-5 is primarily expressed in the brain. It is also detected in the fetal brain, lung, and liver. Glypican-5 enhances the intracellular signaling of FGF2 and HGF. It alters the cellular distribution of FGF2. The properties of Glypican-5 make it an attractive target for therapeutic intervention in rhabdomyosarcomas and other tumors that amplify and/or overexpress its gene. Glypican-5 is overexpressed in lymphoma cell lines that had shown amplification. It is a likely target for amplification, and that over-expression of GPC5 may contribute to the development and/or progression of lymphomas and other tumors.
References	Yu W, et al. (2003) GPC5 is a possible target for the 13q31-q32 amplification detected in lymphoma cell lines. J Hum Genet. 48(6): 331-5. Williamson D, et al. (2007) Role for amplification and expression of glypican-5 in rhabdomyosarcoma. Cancer Res. 67(1): 57-65.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758464
NCBI GeneID	2262
NCBI Accession #	NP_004457.1
NCBI GenBank Nucleotide #	NM_004466.4
UniProt Accession #	P78333; O60436; Q9BX27; B2R726
Molecular Weight	63,707 Da
NCBI Official Full Name	glypican-5
NCBI Official Synonym Full Names	glypican 5
NCBI Official Symbol	GPC5
NCBI Protein Information	glypican-5; bA93M14.1; glypican proteoglycan 5
UniProt Protein Name	Glypican-5
UniProt Gene Name	GPC5
UniProt Entry Name	GPC5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/baculovirus-insect-cells-gpc5-active-protein/glypican-5/257827>