Recombinant Human Glypican 5/GPC5 Protein (His Tag)

Catalog Number: PKSH031890

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

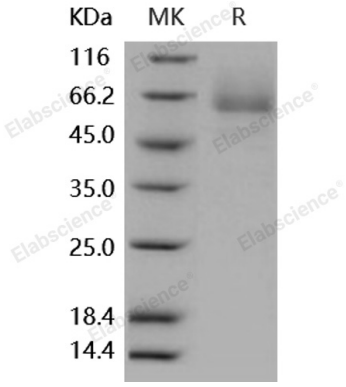
Description

Species	Human
Source	Baculovirus-Insect Cells-derived Human Glypican 5/GPC5 protein Met 1-Thr 554, with an C-terminal His
Calculated MW	60.5 kDa
Observed MW	60.5 kDa
Accession	NP_004457.1
Bio-activity	Immobilized human GPC5 at 5 μg/ml (100 μl/well) can bind human bFGF with a linear ranger of 0.156-2. 5 ng/ml.

Properties

Purity	> 92 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile 50mM Tris, 100mM NaCl, pH 8.0 Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 92 % as determined by reducing SDS-PAGE.

Background

Glypican-5 (GPC5), is a cell membrane protein which 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 vertebrates. In adult, Glypican-5 is primarily expressed in the brain. It is also detected in 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 over-expressed in lymphoma cell lines that had shown amplification. It is a likely target for amplification, and that over-expression of GPC5 may contribute to development and/or progression of lymphomas and other tumors.

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