## For Research Use Only Recombinant Human GPC1/Glypican 1 protein (His Tag)



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## Catalog Number: Eg0737

Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	<b>Tag:</b> His Tag
Technical Specifications	Purity: >90 %. SDS-PAGE		
	<b>Endotoxin Level:</b> <0.1 EU/ μ g protein, LA	AL method	
	Source: HEK293-derived Human GPC1 protein Asp24-Ser530 (Accession# P35052-1) with a His tag at the C-terminus.		
	GenelD: 2817		
	Accession: P35052-1		
	Predicted Molecular M 56.9 kDa	ass:	
	<mark>SDS-PAGE:</mark> 55-60 kDa, reducing (R	) conditions	
	Formulation: Lyophilized from 0.22 protectants before lyc	μ m filtered solution in PBS, pH 7.4. Normall philization.	y 5% trehalose and 5% mannitol are added as
<b>Biological Activity</b>	Not tested		
Storage and Shipping	Storage: It is recommended that	at the protein be aliquoted for optimal stora	ge. Avoid repeated freeze-thaw cycles.
	<ul> <li>Until expiry d</li> <li>3 months, -20</li> </ul>	ate, -20 $^\circ\!\!\mathbb{C}$ to -80 $^\circ\!\!\mathbb{C}$ as lyophilized proteins. $^\circ\!\!\mathbb{C}$ to -80 $^\circ\!\!\mathbb{C}$ under sterile conditions after re	constitution.
	Shipping: The product is shipped temperature.	l at ambient temperature. Upon receipt, sto	re it immediately at the recommended
Reconstitution	Briefly centrifuge the	tube before opening. Reconstitute at 0.1-0.	5 mg/mL in sterile water.
Background	Glypicans are a family of HSPGs that are attached to the cell membrane by a glycosyl-phosphatidylinositol anchor. Glypicans are considered to have the ability to modulate the activities of HBGFs. The expression of glypicans is regulated temporally and spatially during development, suggesting they are involved in development and morphogenesis. To date, six glypicans (GPC1 to GPC6) have been identified in mammals. GPC1 is most ubiquitously expressed in adult tissues. GPC1 promotes efficient signaling by HBGFs and plays a critical role in cell growth and differentiation. GPC1 is involved in tumorigenesis and angiogenesis, and is frequently overexpressed in several types of tumors including pancreatic carcinoma, breast cancer and glioma.		
References	1. Lund ME, et al. (2020 2. Pan J, Ho M. (2021). A 3. Tarbell JM, Cancel LM 4. Takahashi Y, et al. (20	). Adv Exp Med Biol. 1245:163-176. m J Physiol Cell Physiol. 321(5):C846-C858. 1. (2016). J Intern Med. 280(1):97-113. 221). Int J Mol Sci. 22(11):5780.	
Suponyms	glypican 1, GPC1, FLJ38	3078, glypican, glypican1	

Synonyms

glypi 8, glypican, glyp 1, 0 -1, F

## Selected Validation Data



Purity of Recombinant Human GPC1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

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