

Glypican-5/GPC5 Protein, Human (sf9, His)

Cat. No.:	HY-P73079
Synonyms:	Glypican proteoglycan 5; GPC5
Species:	Human
Source:	Sf9 insect cells
Accession:	P78333 (E25-T554)
Gene ID:	2262
Molecular Weight:	Approximately 60.5 kDa

PROPERTIES

AA Sequence	<p> MDAQTPVGF RCLLLALVG SARSEGVQTC EEVRKLFQWR LLGAVRGLPD SPRAGPDLQV CISKKPTCCT RKMEERYQIA ARQDMQQFLQ TSSSTLKFLI SRNAAAFQET LETLIKQAEN YTSILFCSTY RNMALEAAAS VQEFFTDVGL YLFGADVNP EFVNRFFDSL FPLVYNHLIN PGVTDSSLEY SECIRMARRD VSPFGNIPQR VMGQMGRSLL PSRTFLQALN LGIEVINTTD YLHFSKECSR ALLKMQYCPH CQGLALTKPC MGYCLNVMRG CLAHMAELNP HWHAYIRSLE ELSDAMHGTY DIGHVLLNFH LLVNDAVLQA HLNQKLLLEQ VNRI CGRPVR TPTQSPRCSF DQSKEKHGMK TTRNSEETL ANRRKEFINS LRLYRSFYGG LADQLCANEL AAADGLPCWN GEDIVKSYTQ RVVGNIGIKAQ SGNPEVKVKG IDPVINQIID KCLKHVVLQ LQ GRSPKPKDWE LLQLGSGGGM VEQVSGDCDD EDGCGGSGSG EVKRTLKITD WMPDDMNFSD VKQIHQTD TG STLDTTGAGC AVAT </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris, 100 mM NaCl, pH 8.0. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

Glypican-5 (GPC5) protein is a cell surface proteoglycan that is distinguished by its specific association with heparan sulfate. As a proteoglycan, GPC5 consists of a core protein that is covalently attached to heparan sulfate chains. The presence of this protein on the cell surface suggests its involvement in cellular signaling and communication. Heparan sulfate chains, which are known for their ability to interact with various growth factors and other signaling molecules, likely contribute to GPC5's role in modulating signaling pathways and cellular processes. The unique characteristics of GPC5, including its association with heparan sulfate, suggest its significant contribution to cellular functions and highlight its potential as a target for further research and therapeutic interventions.

Caution: Product has not been fully validated for medical applications. For research use only.

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