

Glypican-3/GPC3 Protein, Rhesus Macaque (HEK293, His)

Cat. No.:	HY-P72628
Synonyms:	Glypican-3; GTR2-2; Intestinal protein OCI-5; MXR7; GPC3; OCI5
Species:	Rhesus Macaque
Source:	HEK293
Accession:	XP_005594665.1 (Q25-H559)
Gene ID:	102137748
Molecular Weight:	38&65-120 kDa

PROPERTIES

AA Sequence

Q P P P P P D A T	C H Q V R S F F Q R	L Q P G L K W V P E	T P V P G S D L Q V
C L P K G P T C C S	R K M E E K Y Q L T	A R L N M E Q L L Q	S A S M E L K F L I
I Q N A A V F Q E A	F E I V V R H A K N	Y T N A M F K N N Y	P S L T P Q A F E F
V G E F F T D V S L	Y I L G S D I N V D	D M V N E L F D S L	F P V I Y T Q L M N
P G L P D S A L D I	N E C L R G A R R D	L K V F G N F P K L	I M T Q V S K S L Q
V T R I F L Q A L N	L G I E V I N T T D	H L K F S K D C G R	M L T R M W Y C S Y
C Q G L M M V K P C	G G Y C N V V M Q G	C M A G V V E I D K	Y W R E Y I L S L E
E L V N G M Y R I Y	D M E N V L L G L F	S T I H D S I Q Y V	Q K N A G K L T T T
I G K L C A H S Q Q	R Q Y R S A Y Y P E	D L F I D K K V L K	V A H V E H E E T L
S S R R R E L I Q K	L K S F I S F Y S A	L P G Y I C S H S P	V A E N D T L C W N
G Q E L V E R Y S Q	K A A R N G M K N Q	F N L H E L K M K G	P E P V V S Q I I D
K L K H I N Q L L R	T M S V P K G R V L	D K N L D E E G F E	S G D C G D D E D E
C I G G S G D G M M	K V K N Q L R F L A	E L A Y D L D V D D	V P G N N Q Q A T P
K D N E I S T F H N	L G N V H		

Appearance Lyophilized powder.

Formulation Lyophilized from a 0.2 µm filtered solution of PBS, 5% Trehalose, pH 7.4.

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 ddH₂O.

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

GPC3 is a member of the heparan sulfate proteoglycans (HSPGs), and attaches to the cell surface by a glycosylphosphatidylinositol anchor. GPC3 is overexpressed in hepatocellular carcinoma (HCC) and can be used as a tumor marker for HCC. GPC3 plays a role in liver carcinogenesis^[1]. Specifically, Membrane GPC3 can interact with several growth factors (eg: Wnt, Hedgehogs, bone morphogenetic factors, and FGF) to promote the binding of growth factors to their receptors. GPC3 can form a complex with Wnt and activates Wnt signaling, leading to the HCC growth^[2]. In addition, GPC3 can regulate cell growth. GPC3 is highly expressed in mesodermal embryonic tissues, and the deletion of the GPC3 gene is involved in the pathogenesis of Simpson-Golabi-Behmel overgrowth syndrome. The interaction of GPC3 with IGF2 can reduce IGF2-mediated growth in vivo, which indicates that GPC3 negatively regulates embryonic and fetal development. Besides, GPC3 is a negative transcriptional regulator and tumor suppressor that inhibits the growth of breast, ovary, and lung cancer cells^{[2][3]}. GPC3 has a cleavage site between Arg358 and Ser359, and can be cleaved by Furin protease^[2].

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

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