

Recombinant Human GPC3 Protein (25-559aa), C-His-tagged

Cat. No. GPC3-22H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human GPC3 (25-559aa), fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
ProteinLength	25-559
Description	Cell surface heparan sulfate proteoglycans are composed of a membrane-associated protein core substituted with a variable number of heparan sulfate chains. Members of the glypican-related integral membrane proteoglycan family (GRIPS) contain a core protein anchored to the cytoplasmic membrane via a glycosyl phosphatidylinositol linkage. These proteins may play a role in the control of cell division and growth regulation. The protein encoded by this gene can bind to and inhibit the dipeptidyl peptidase activity of CD26, and it can induce apoptosis in certain cell types. Deletion mutations in this gene are associated with Simpson-Golabi-Behmel syndrome, also known as Simpson dysmorphia syndrome. Alternative splicing results in multiple transcript variants.
Form	Liquid
Molecular Mass	61.8 kDa (544aa)

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AA Sequence	ADPQPPPPPPDATCHQVRSFFQRLQPGLKWVPETPVPGSDLQVCLPKGPTCCSRK MEEKYQLTARLNMEQLLQSASMELKFLIIQNAAVFQEAFEIVVRHAKNYTNAMFKNN YPSLTPQAFEFVGEFFTDVSLYLGS DINVDDMVNELFDSLFPVIYTQLMNPGLPDSA LDINECLRGARRDLKVFGNF PKLIMTQVSKSLQVTRIFLQALNLGIEVINTTDHLKFSK DCGRMLTRMWYCSYCQGLMMVKPCGGYCNVVMQGC MAGVVEIDKYWREYILSLE ELVNGMYRIYDMENVLLGLFSTIHDSIQYVQKNAGKLTTTIGKLCAHSQQRQYRSAY YPEDLFIDKKVLKVAHVEHEETLSSRRRELIQKLKSFISFY S ALPGYICSHSPVAENDT LCWNGQELVERYSQKAARNGMKNQFNLHELKMKGPEPVVSQIIDKLKHINQLLRTM SMPKGRVLDKNLDEEGFESGDCGDDDEDECIGGSGDGMIKVKNQLRFLAELAYDL DV DDAPGNSQQATPKDNEISTFHNLGNVHHHHHHH
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 90% by SDS-PAGE
Applications	SDS-PAGE
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/mL (determined by absorbance at 280nm)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

GENE INFORMATION

Gene Name	GPC3 glypican 3 [Homo sapiens (human)]
Official Symbol	GPC3
Synonyms	GPC3; glypican 3; glypican-3; glypican proteoglycan 3; heparan sulphate

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proteoglycan; intestinal protein OCI-5; secreted glypican-3; SGB; DGSX; MXR7; SDYS; SGBS; OCI-5; SGBS1; GTR2-2

Gene ID 2719

mRNA Refseq NM_004484

Protein Refseq NP_004475

MIM 300037

UniProt ID P51654

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