
Product Data Sheet

Product Name: GPC3 Human
 Cat. No.: GP23589
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Glypican 3; Intestinal Protein OCI-5; Glypican Proteoglycan 3; GTR2-2; MXR7; Heparan Sulphate Proteoglycan; Secreted Glypican-3; Glypican-3; OCI-5; SGBS1; DGSX; SGBS; SDYS; OCI5; SGB; GPC3.		
Amino Acid Sequence	ADPQPPPPP DATCHQVRSF FQRLQPGLKW VPETPVPGSD LQVCLPKGPT CCSRKMEEKY QLTARLNMEQ LLQSASMELK FLIIQNAAVF QEAFEIVVRH AKNYTNAMFK NNYPSTLTPQA FEFVGEFFTD VSLYILGSDI NVDDMVNELF DSLFPVIYTQ LMNPGLPDSA LDINECLRGA RRDLKVFNGF PKLIMTQVSK SLQVTRIFLQ ALNLGIEVIN TTDHLKFSKD CGRMLTRMWY CSYCQGLMMV KPCGGYCNVV MQGCMAGVVE IDKYWREYIL SLEELVNGMY RIYDMENVLL GLFSTIHDSI QYVQKNAGKL TTTIGKLCAH SQRQYRSAY YPEDLFIDKK VLKVAHVEHE ETLSSRRREL IQKLKSFISF YSALPGYICS HSPVAENDTL CWNGQELVER YSQKAARNGM KNQFNLHELK MKGPEPVVSQ IIDKCLKHINQ LLRTMSMPKG RVLDKNLDEE GFESGDCGDD EDECIGGSGD GMIKVKNQLR FLAELAYDLD VDDAPGNSQQ ATPKDNEIST FHNLGNVHHH HHHH.		
Formulation	GPC3 protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

Introduction

Glypican-3 (GPC3) belongs to the glypican family, and is highly expressed in the lung, liver, and the kidney. In some tissues, GPC3 functions as a tumor suppressor gene and an oncofetal protein. The Glypican-3 protein is currently considered as a tumor marker and potential target for immunotherapy. Glypican-3 binds to and inhibits the dipeptidyl peptidase activity of CD26, and it can also induce apoptosis in certain cell types. Deletion mutations in the GPC3 gene are linked with Simpson-Golabi-Behmel syndrome, aka Simpson dysmorphia syndrome.

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

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Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

GPC3 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 544 amino acids (25-559a.a.) and having a molecular mass of 61.8kDa (Molecular size on SDS-PAGE will appear at approximately 50-70kDa). GPC3 is expressed with a 6 amino acids His tag at C-Terminus and purified by proprietary chromatographic techniques.

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