

Glypican 3/GPC3 Protein, Rat, Recombinant (His)

General Information

Synonyms: Intestinal protein OCI-5;Gpc3;Glypican-3

Protein Construction: 25-560 aa

Species: Rat

Expression Host: P. pastoris (Yeast)

Accession: P13265

Molecular Weight: 62.8 kDa (predicted)

AA Sequence:

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QPPPPDATCHQVRSFFQRLQPGLKWPETVPVPGSDLQVCLPKGPTCCSRKMEEKYQLTARLNMEQLQSA  
SMELKFLIIQNAAVFQEAFEIVVRHAKNYTNAMFKNNYPSLTPQAFEFVGEFFTDVSLYLGSDINVDDMVNEL  
FDSLFPVIYTQMMNPGLPESVLDINECLRGARRDLKVFSGFPKLIMTQVSKSLQVTRIFLQALNLGIEVINTTDH  
LKFSKDCGRMLTRMWYCSYQGLMMVKPCGGYCNVVMQGC MAGVVEIDKYWREYILSLEELVNGMYRIYD  
MENVLLGLFSTIHDSIQYVQKNGGKLTITIGKLCAHSQQRQYRSAYYPEDLFIDKKVLKVARVEHEETLSSRRR  
ELIQKLKSFISFYALPGYICSHSPVAENDTLCWNGQELVERYSQKAARNGMKNQFNLHELKMKGPPEVVSQI  
IDKLKHINQLLRTMSVPKGKVVDKSLDEEGLESGDCGDDDEDECIGSSGDGMMKVKNQLRFLAELAYDLDDVDD  
APGNKQHGNQKDNEITTSHSVGNMPSP
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QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Cell surface proteoglycan that bears heparan sulfate. Negatively regulates the hedgehog signaling pathway when attached via the GPI-anchor to the cell surface by competing with the hedgehog receptor PTC1 for binding to hedgehog proteins. Binding to the hedgehog protein SHH triggers internalization of the complex by endocytosis and its subsequent lysosomal degradation. Positively regulates the canonical Wnt signaling pathway by binding to the Wnt receptor Frizzled and stimulating the binding of the Frizzled receptor to Wnt ligands. Positively regulates the non-canonical Wnt signaling pathway. Binds to CD81 which decreases the availability of free CD81 for binding to the transcriptional repressor HHEX, resulting in nuclear translocation of HHEX and transcriptional repression. Inhibits the dipeptidyl peptidase activity of DPP4. Plays a role in limb patterning and skeletal development by controlling the cellular response to BMP4. Modulates the effects of growth factors BMP2, BMP7 and FGF7 on renal branching morphogenesis. Required for coronary vascular development. Plays a role in regulating cell movements during gastrulation.

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