

Rev02
 Update: Aug,08,2025

DATASHEET

GPC3/Glypican 3, His, Human

Cat. No.: Z04268

Product Introduction

Species	Human
Protein Construction	<div style="display: flex; align-items: center; justify-content: center;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> GPC3/Glypican 3 (Gln25-His559) Accession # P51654-1 </div> <div style="margin: 0 10px;">→</div> <div style="background-color: #76923c; color: white; padding: 5px; text-align: center;"> His </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> N-term C-term </div>
Purity	> 95% as determined by BisTris PAGE > 95% as determined by HPLC
Endotoxin Level	Less than 1EU per µg by the LAL method.
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized GPC3/Glypican 3, His, Human at 1 µg/ml (100µl/Well) on the plate can bind AntiGPC3 Antibody, hFc Tag. Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	61.6 kDa
Apparent Molecular Weight	Due to furin-like convertase cleavage site and glycosylation, the protein migrates to 42 kDa, 70-115 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4).
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage & Stability	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

Background

Target Background : Glypican-3 is a protein ,which is encoded by the GPC3 gene in humans.The protein core of GPC3 consists of two subunits, where the N-terminal subunit has a size of ~40 kDa and the C-terminal subunit is ~30 kDa.Glypican 3 is a potential therapeutic target for treating liver cancer and other cancers. Several therapeutic anti-GPC3 antibodies have been developed.

Synonyms : GPC3; DGSX; Glypican 3; GTR2-2; MXR7; OCI5; OCI-5; SGB; SGBS; SGBS1SDYS; SDYS; SGBS1

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GenScript USA, Inc.

860 Centennial Ave. Piscataway, NJ 08854

Tel: 1-732-885-9188

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Manufacturer: Nanjing GenScript Biotech Co., Ltd. No. 28Yongxi Road, Jiangning District, Nanjing, Jiangsu, China

GenScript USA, Inc.

860 Centennial Ave. Piscataway, NJ 08854

Tel: 1-732-885-9188