Data Sheet (Cat.No.TMPY-06820)

TargetMol

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

General Information

Synonyms: glypican 3

Protein Construction: Gln25-His559

Species: Cynomolgus

Expression Host: HEK293 Cells

Accession: XP_005594665.1

Molecular Weight: 61.8 kDa (Predicted); 42 kDa, 70-135 kDa (Due to glycosylation)

QC Testing

Biological Activity: Immobilized Cynomolgus GPC3, His Tag at 0.5 μg/ml (100 μl/well) on the plate. Dose response curve for Anti-GPC3 Antibody, hFc Tag with the EC50 of 35.0 ng/ml determined by ELISA.

Purity: > 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC

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

Formulation: Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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

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.

Reference

Kandil DH, et al. (2009) Glypican-3: a novel diagnostic marker for hepatocellular carcinoma and more. Adv Anat Pathol. 16(2): 125-9.

Maeda D, et al. (2009) Glypican-3 expression in clear cell adenocarcinoma of the ovary. Mod Pathol. 22(6): 824-32.

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