

GPC5D Protein-VLP, Mouse, Recombinant

General Information

Synonyms: MGC129713; orphan G-protein coupled receptor; GPRC5D; MGC129714

Protein Construction: Met1-Leu344

Species: Mouse

Expression Host: HEK293 Cells

Accession: Q9JIL6-1

Molecular Weight: 39.90 kDa (predicted)

QC Testing

Biological Activity: Immobilized Mouse GPRC5D VLP (100µl/well) at 5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-GPRC5D Antibody, hFc Tag with the EC50 of 5.7ng/ml determined by ELISA.

Purity: ; > 95% as determined by HPLC

Endotoxin: < 1 EU/µg by the LAL method.

Formulation: Supplied as 0.22 µm filtered solution in PBS (pH 7.4). Notice: If you need it for immunization, Do Not use any adjuvant.

Preparation and Storage

Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Shipping:

Shipping with blue ice.

Protein Background

Chimeric antigen receptor (CAR) T cells, a type of cell-based immunotherapy, have shown some promising results in multiple myeloma, a bone marrow cancer. The orphan G protein-coupled receptor, class C group 5 member D (GPRC5D), normally expressed only in the hair follicle, Using quantitative immunofluorescence, we determined that GPRC5D protein is expressed on CD138 MM cells from primary marrow samples with a distribution that was similar to, but independent of, BCMA.

Reference

Smith EL, et al. GPRC5D is a target for the immunotherapy of multiple myeloma with rationally designed CAR T cells. *Sci Transl Med.* 2019 Mar 27;11(485):eaau7746. doi: 10.1126/scitranslmed.aau7746. PMID: 30918115; PMCID: PMC7508042.

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