

## GPRC5D 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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