

# Mouse GPRC5D Protein-VLP

Cat. No. GPR-MM05P

## Description

<b>Source</b>	Recombinant Mouse GPRC5D Protein-VLP is expressed from HEK293. It contains Met1-Leu344.
<b>Accession</b>	Q9JIL6-1
<b>Molecular Weight</b>	The target protein has a predicted MW of 39.90 kDa.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by HPLC

## Formulation and Storage

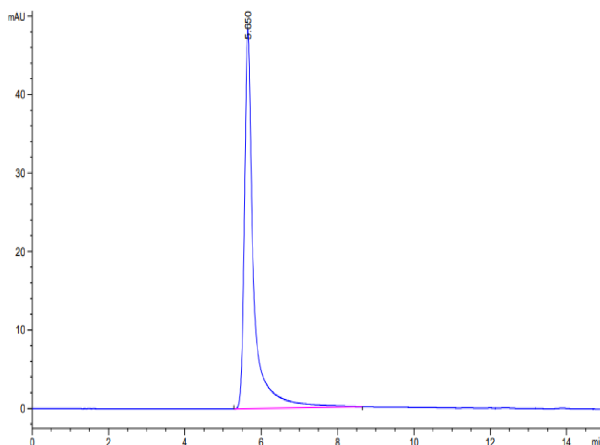
<b>Formulation</b>	Supplied as 0.22µm filtered solution in PBS, 300mM L-Arginine (pH 7.4). Notice: If you need it for immunization, Do Not use any adjuvant.
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## 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.

## Assay Data

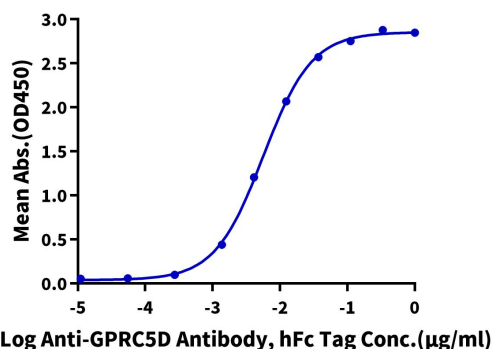
### SEC-HPLC



The purity of Mouse GPRC5D VLP is greater than 95% as determined by SEC-HPLC.

### ELISA Data

**Mouse GPRC5D VLP ELISA**  
0.5µg Mouse GPRC5D VLP Per Well



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.