

Human GPRC5D Protein-VLP

Cat. No. GPR-HM05P

Description

Source	Recombinant Human GPRC5D Protein-VLP is expressed from HEK293. It contains Met1-Val345.
Accession	Q9NZD1-1
Molecular Weight	The target protein has a predicted MW of 39.6 kDa.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	>95% as determined by HPLC

Formulation and Storage

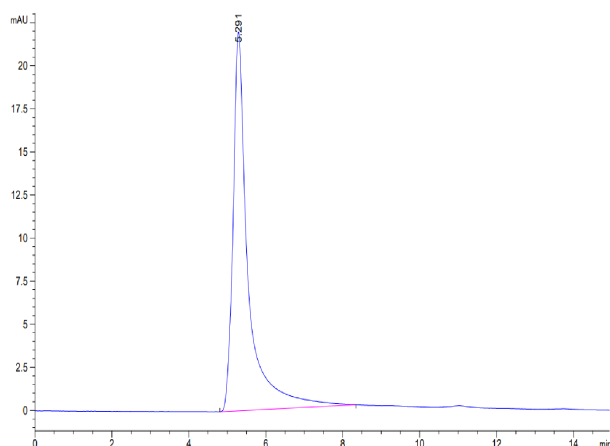
Formulation	Supplied as 0.22 μm filtered solution in PBS, 300 mM L-Arginine (pH 7.4). Notice: If you need it for immunization, water-soluble adjuvant is recommended.
Storage	Valid for 12 months from date of receipt when stored at -80°C . Recommend to aliquot the protein into smaller quantities for optimal 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

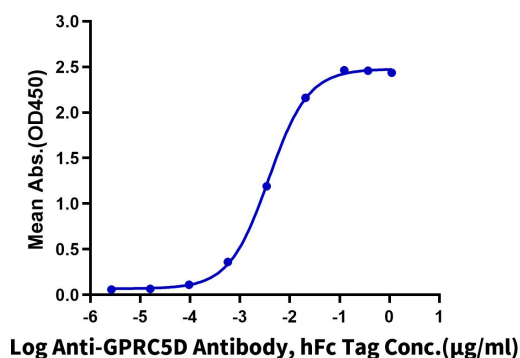


The purity of Human GPRC5D VLP is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human GPRC5D VLP ELISA

0.5 μg Human GPRC5D VLP Per Well



Immobilized Human GPRC5D VLP at 5 $\mu\text{g}/\text{ml}$ (100 $\mu\text{l}/\text{Well}$) on the plate. Dose response curve for Anti-GPRC5D Antibody, hFc Tag with the EC_{50} of 3.8 ng/ml determined by ELISA.