

Biotinylated Human GPRC5D Protein-VLP

Cat. No. GPR-HM05PB



Description

Source	Recombinant Biotinylated Human GPRC5D Protein-VLP is expressed from HEK293.
	It contains Met1-Val345 (It may have cross reaction with anti-His antibody).
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

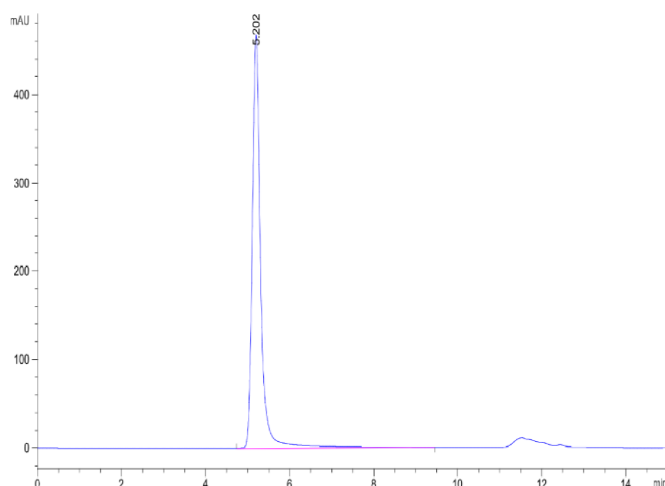
Formulation	Supplied as 0.22µm filtered solution in PBS, 300mM L-Arginine (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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



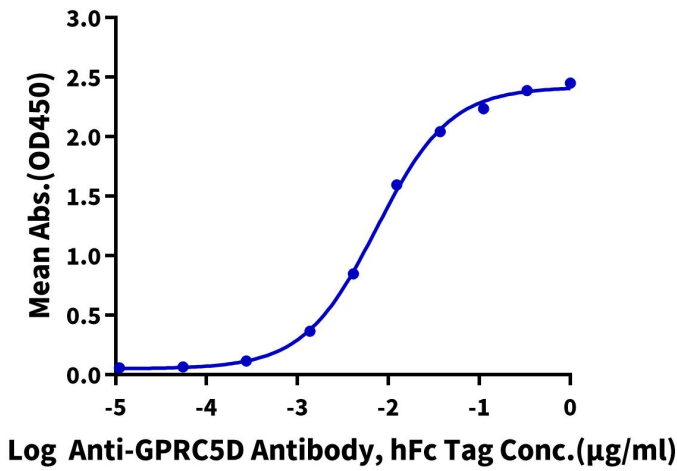
The purity of Biotinylated Human GPRC5D VLP is greater than 95% as determined by SEC-HPLC.

ELISA Data

Assay Data

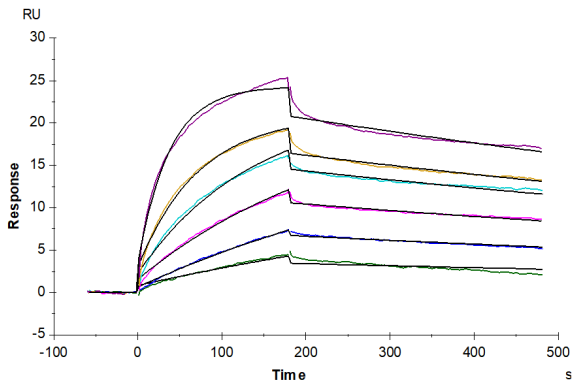
Biotinylated Human GPRC5D VLP ELISA

0.5µg Biotinylated Human GPRC5D VLP Per Well



Immobilized Biotinylated Human GPRC5D VLP at 5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-GPRC5D Antibody, hFc Tag with the EC50 of 7.4ng/ml determined by ELISA (QC Test).

SPR Data



Biotinylated Human GPRC5D VLP captured on CM5 Chip via Streptavidin can bind Anti-GPRC5D Antibody with an affinity constant of 0.28 nM as determined in SPR assay (Biacore T200).