# 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.
Accession	Q9NZD1-1
Molecular Weight	The target protein has a predicted MW of 39.6 kDa.
Endotoxin	Less than 1EU per μl 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).

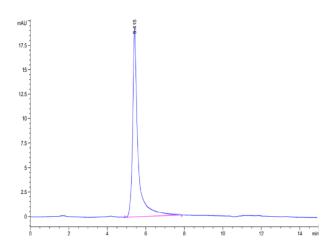
Storage Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## **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.

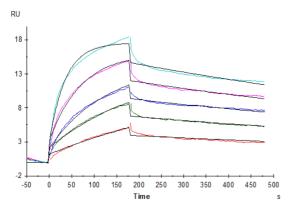
## **Assay Data**

#### **SEC-HPLC**



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

## SPR Data



Biotinylated Human GPRC5D VLP captured on SA Chip can bind Anti-GPRC5D antibody, hFc Tag with an affinity constant of 0.30 nM as determined in SPR assay (Biacore T200) (QC Test)

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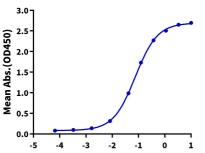
## **Assay Data**

**ELISA Data** 



#### **Biotinylated Human GPRC5D VLP ELISA**

0.1μg Human CD3E&CD3D, hFc Tag Per Well



 $Log\ Anti-Human\ CD3\times GPRC5D\ Bispecific\ Antibody,\ hFc\ Tag\ Conc.(\mu g/ml)$ 

Immobilized Human CD3E&CD3D, hFc Tag at 1µg/ml (100µl/well) on the plate. Add serial dilutions of Anti-CD3×GPRC5D Bispecific Antibody, hFc Tag in 10% Human Serum and then add various dilution ratio of Biotinylated Human GPRC5D VLP. Detection was performed using HRP-conjugated streptavidin with the EC50 of 75.5ng/ml determined by ELISA.