

# Human GPRC5D Nanodisc

Cat. No. GPR-HM15P



## Description

Source	Recombinant Human GPRC5D Nanodisc is expressed from HEK293 with His tag at the C-terminus. It contains Met1-Val345.
Accession	Q9NZD1-1
Molecular Weight	The protein has a predicted MW of 39.6 kDa.
Endotoxin	Less than 1 EU per µg by the LAL method.

## Formulation and Storage

Formulation	Supplied as 0.22 µm filtered solution in PBS, 200mM L-Arginine (pH 7.4). Notice: Not recommended for flow cytometry in mammalian cells.
Storage	Valid for 6 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

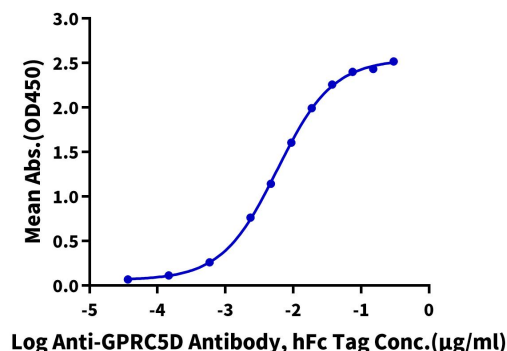
Chimeric antigen receptor (CAR) T cells, a type of cell-based immunotherapy, have shown some promising results in multiple myeloma, a bone marrow cancer. The orphan G protein-coupled receptor, class C group 5 member D (GPRC5D), normally expressed only in the hair follicle. Using quantitative immunofluorescence, 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

### ELISA Data

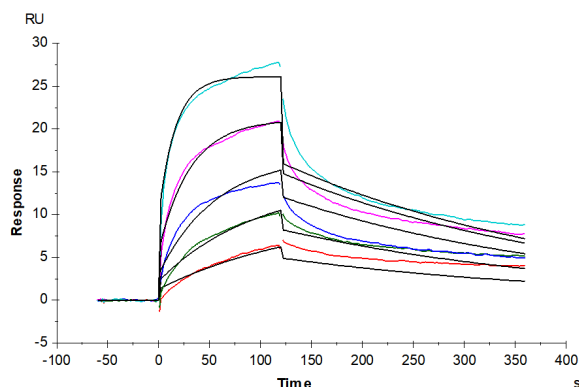
#### Human GPRC5D Nanodisc, His Tag ELISA

0.1µg Human GPRC5D Nanodisc, His Tag Per Well



Immobilized Human GPRC5D Nanodisc, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Anti-GPRC5D Antibody, hFc Tag with the EC50 of 5.8ng/ml determined by ELISA.

### SPR Data



Human GPRC5D Nanodisc, His Tag captured on CM5 Chip via anti-his antibody can bind Anti-GPRC5D Antibody with an affinity constant of 1.47 nM as determined in SPR assay (Biacore T200).