

Biotinylated Human GPRC5D Nanodisc

Cat. No. GPR-HM15NB



Description

Source	Recombinant Biotinylated 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 51.70 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

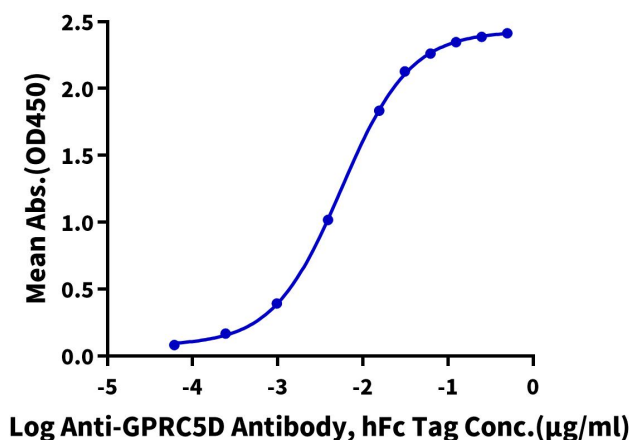
Chimeric antigen receptor (CAR) T cells, a type of cell-based immunotherapy, have shown some promising results in multiple myeloma, a bone marrow cancer. The orphan G protein-coupled receptor, class C group 5 member D (GPRC5D), normally expressed only in the hair follicle. Using quantitative immunofluorescence,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

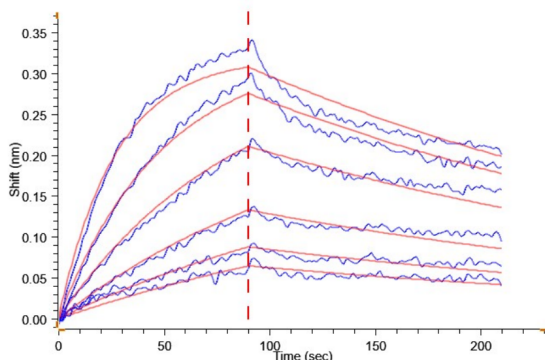
Biotinylated Human GPRC5D Nanodisc, His Tag ELISA

0.5µg Biotinylated Human GPRC5D Nanodisc, His Tag Per Well



Immobilized Biotinylated Human GPRC5D Nanodisc, His Tag 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 5.6ng/ml determined by ELISA (QC Test).

BLI Data



Loaded Biotinylated Human GPRC5D Nanodisc, His Tag on Streptavidin-Biosensor can bind Anti-GPRC5D Antibody, hFc Tag with an affinity constant of 2.21 nM as determined in BLI assay (Gator® Prime).