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

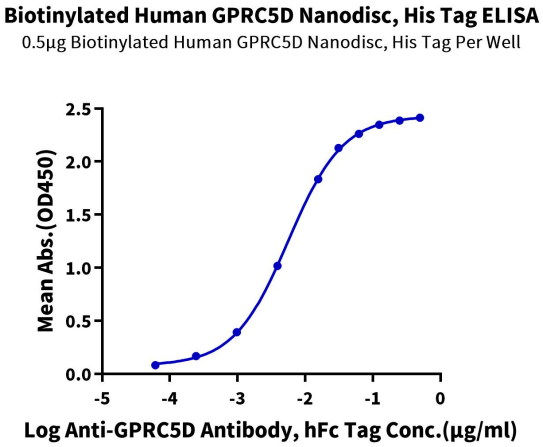
Formulation	Supplied as 0.22 μm filtered solution in PBS, 200mM L-Arginine (pH 7.4). Notice: Not recommended for flow cytometry in mammalian cells.
Storage	Valid for 6 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please 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.

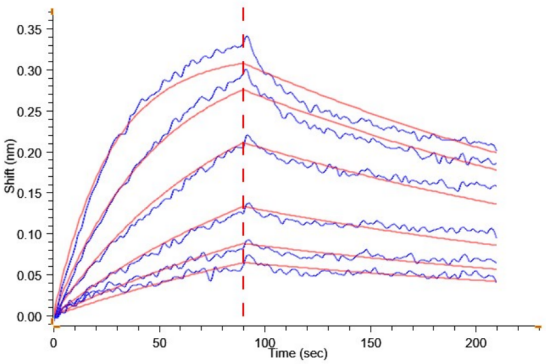
Assay Data

ELISA Data



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).