Human GPRC5D Protein-Nanodisc

Cat. No. GPR-HM15P

Description

Source	Recombinant Human GPRC5D Protein-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 42.10 kDa.
Endotoxin	Less than 1EU per μg by the LAL method.

Formulation and Storage

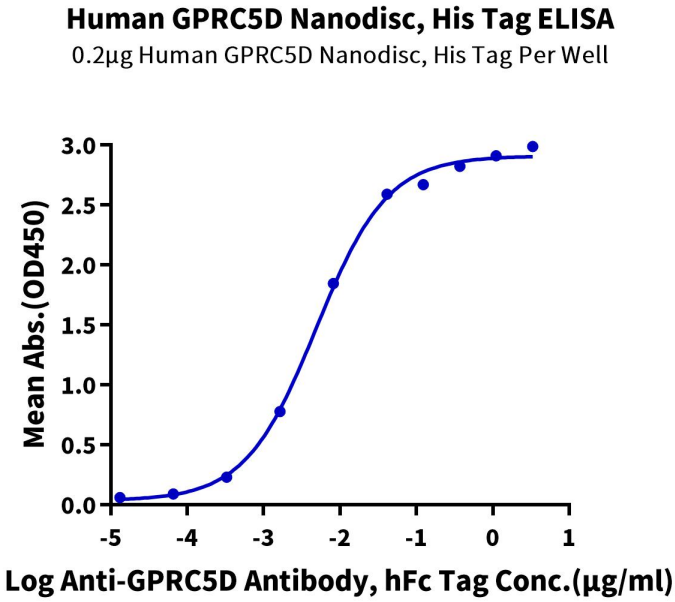
Formulation	Supplied as 0.22 μm filtered solution in PBS (pH 7.4). Notice: Not recommended for immunization.
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

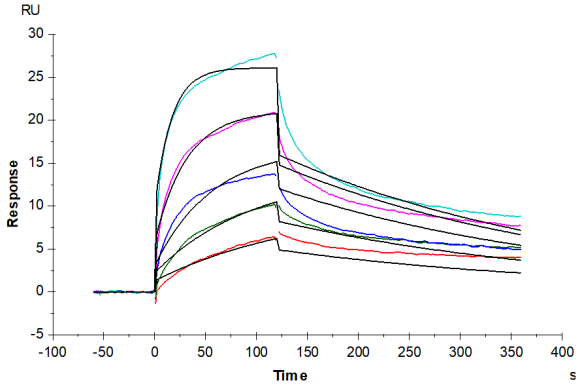
Assay Data

ELISA Data



Immobilized Human GPRC5D Nanodisc, His Tag at 2μg/ml (100μl/well) on the plate. Dose response curve for Anti-GPRC5D Antibody, hFc Tag with the EC50 of 4.9ng/ml determined by ELISA (QC Test).

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).