PRODUCT INFORMATION

Tag	C-Flag Tag
Expression Host	HEK293
Target	GPRC5D
Synonyms	GPRC5D
Description	Human GPRC5D full length protein-synthetic nanodisc
Uniprot ID	Q9NZD1
Protein Families	GPCR
Protein Pathways	N/A
Molecular Weight	The human full length GPRC5D Protein has a MW of 38.6 kDa
Delivery	In Stock
Formulation & Reconstitution	Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions. Do not use solvents with a pH below 6.5 or those containing high concentrations of divalent metal ions (greater than 5 mM) in subsequent experiments.
Sterility	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.
Storage&Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Background	The protein encoded by this gene is a member of the G protein-coupled receptor family. Recent studies demonstrate that GPRC5D is expressed on malignant bone marrow plasma cells, whereas normal tissue expression is limited to the hair follicle. It may represent a potential target for effector-cell–mediated therapy to treat plasma-cell disorders like MM.
Usage	Research use only
Conjugate	Unconjugated

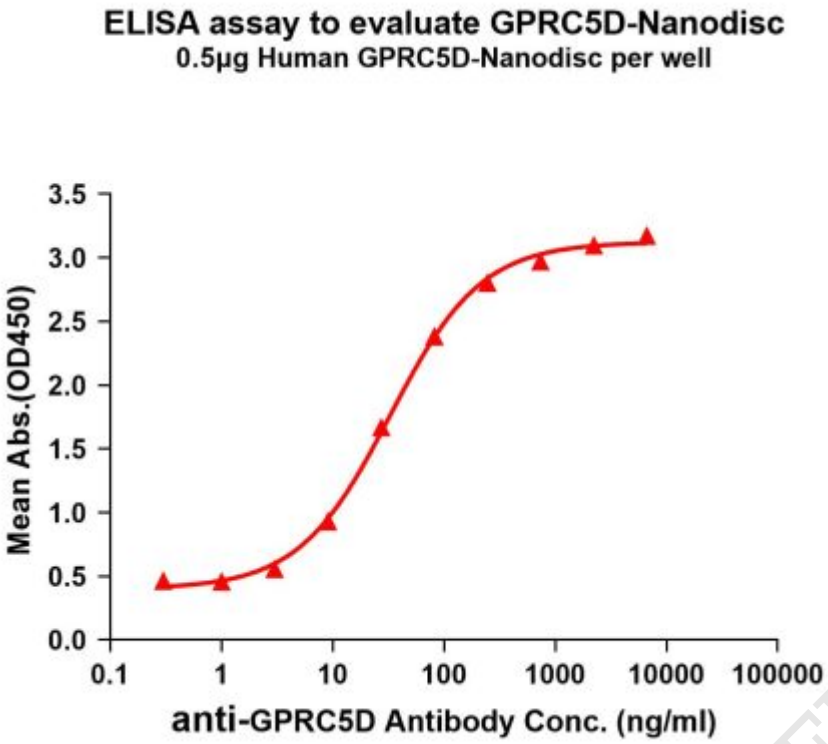

Figure1. Elisa plates were added with Flag Tag GPRC5D-Nanodisc (0.5μg/per well) on an anti-Flag monoclonal antibody pre-coated (0.5μg/per well) plate. Serial diluted anti-GPRC5D monoclonal antibody (DME100090) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-GPRC5D monoclonal antibody binding with GPRC5D-Nanodisc is 32.86ng/ml.

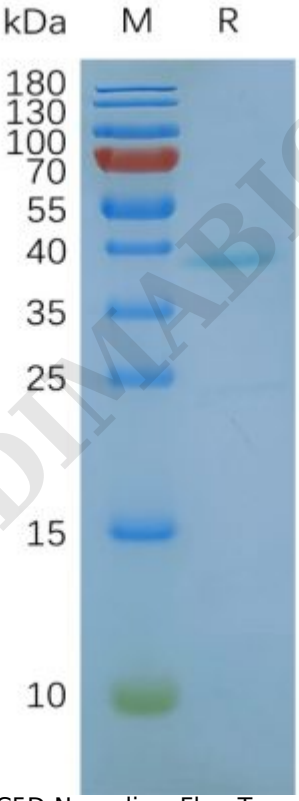

Figure2. Human GPRC5D-Nanodisc, Flag Tag on SDS-PAGE