

**PRODUCT INFORMATION**

<b>Tag</b>	C-Flag Tag
<b>Target</b>	GPRC5D
<b>Synonyms</b>	GPRC5D
<b>Description</b>	Human GPRC5D full length protein-synthetic nanodisc
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	Q9NZD1
<b>Expression Host</b>	HEK293
<b>Protein Families</b>	GPCR
<b>Protein Pathways</b>	N/A
<b>Molecular Weight</b>	The human full length GPRC5D Protein has a MW of 38.6 kDa
<b>Formulation &amp; Reconstitution</b>	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.
<b>Storage &amp; Shipping</b>	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.
<b>Background</b>	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.
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated



### ELISA assay to evaluate GPRC5D-Nanodisc 0.5 $\mu$ g Human GPRC5D-Nanodisc per well

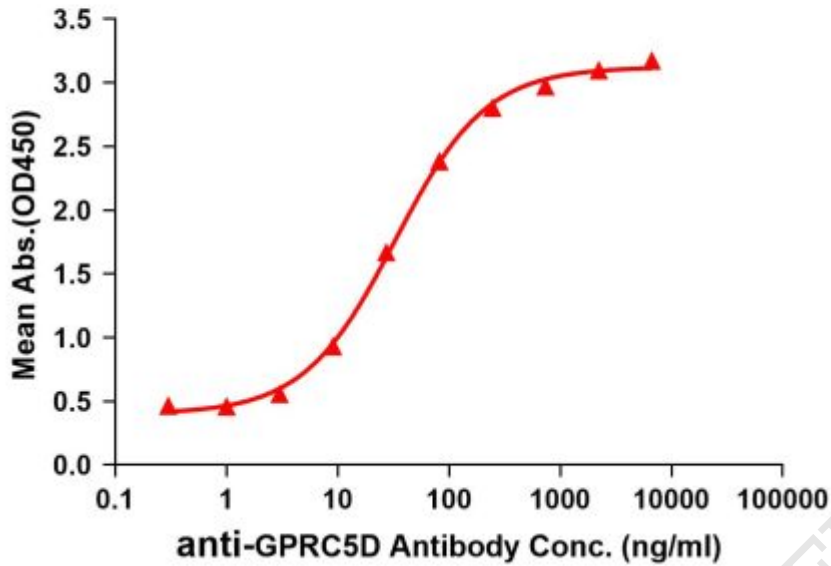


Figure1. Elisa plates were added with Flag Tag GPRC5D-Nanodisc (0.5 $\mu$ g/per well) on an anti-Flag monoclonal antibody pre-coated (0.5 $\mu$ g/per well) plate. Serial diluted anti-GPRC5D monoclonal antibody (DME100090) solutions were added, washed, and incubated with secondary antibody before Elisa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

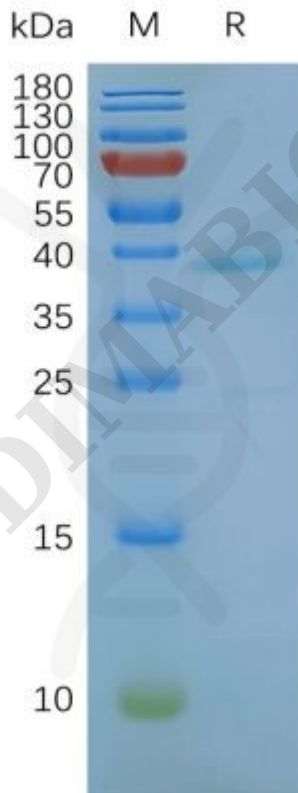


Figure2. Human GPRC5D-Nanodisc, Flag Tag on SDS-PAGE

