

PRODUCT INFORMATION

Tag	C-Flag&Strep Tag
Expression Host	HEK293
Target	GPR87
Synonyms	FKSG78; GPR95; KPG_002
Description	Human GPR87-Strep full length protein-synthetic nanodisc
Uniprot ID	Q9BY21
Protein Families	Druggable Genome, GPCR, Transmembrane
Protein Pathways	N/A
Molecular Weight	The human full length GPR87-Strep protein has a MW of 41.4 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	This protein is a G protein-coupled receptor and is located in a cluster of G protein-couple receptor genes on chromosome 3. The protein has been shown to be overexpressed in lung squamous cell carcinoma and regulated by p53.
Usage	Research use only
Conjugate	Unconjugated



ELISA assay to evaluate GPR87-Strep-Nanodisc 0.2 μ g Human GPR87-Strep-Nanodisc per well

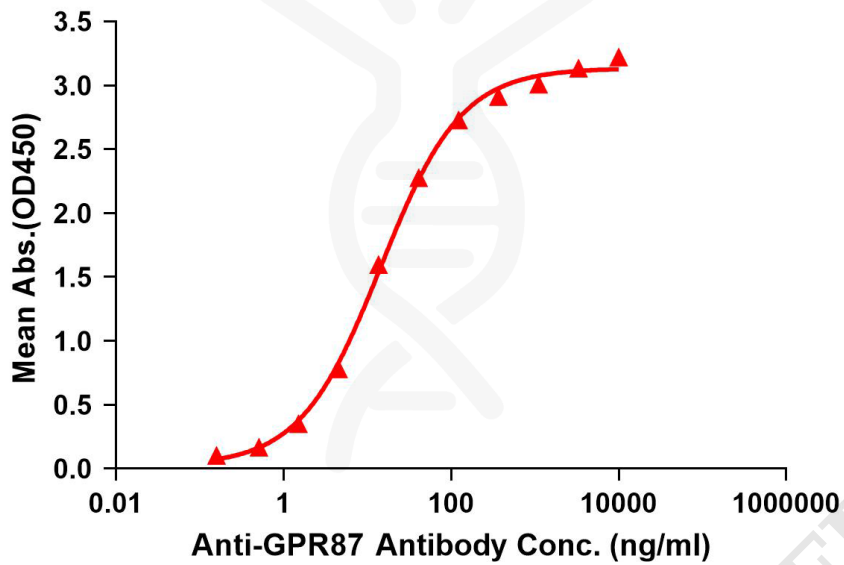


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag GPR87-Strep-Nanodisc (0.2 μ g/per well). Serial diluted anti-GPR87 monoclonal antibody (DMC100478) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC₅₀ for anti-GPR87 monoclonal antibody binding with GPR87-Strep-Nanodisc is 14.49ng/ml.

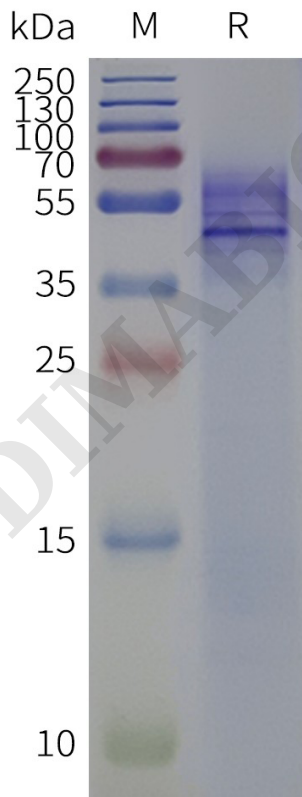


Figure 2. Human GPR87-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

