PRODUCT INFORMATION

Tag	C-Flag&Strep Tag
Target	S1PR1
Synonyms	CD363; CHEDG1; D1S3362; ECGF1; EDG-1; EDG1; S1P1
Description	Human S1PR1-Strep full length protein-synthetic nanodisc
Delivery	In Stock
Uniprot ID	P21453
Expression Host	HEK293
Protein Families	Druggable Genome, GPCR, Transmembrane
Protein Pathways	Neuroactive ligand-receptor interaction
Molecular Weight	The human full length S1PR1-Strep protein has a MW of 42.8 kDa
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.
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 is structurally similar to G protein-coupled receptors and is highly expressed in endothelial cells. It binds the ligand sphingosine-1-phosphate with high affinity and high specificity, and suggested to be involved in the processes that regulate the differentiation of endothelial cells. Activation of this receptor induces cell-cell adhesion.
Usage	Research use only
Conjugate	Unconjugated

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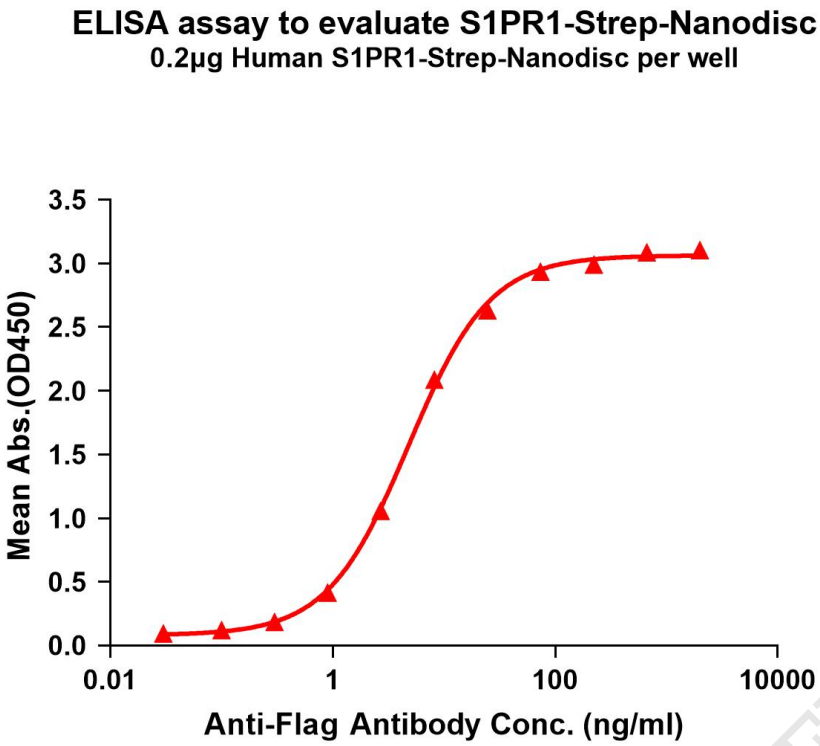

Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag S1PR1-Strep-Nanodisc (0.2μg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with S1PR1-Strep-nanodisc is 4.824ng/ml.

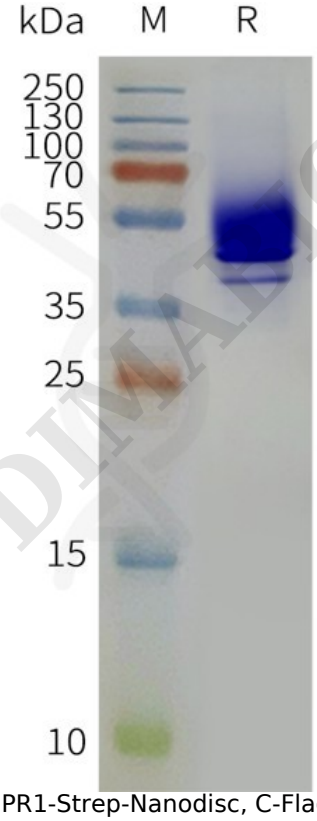

Figure 2. Human S1PR1-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

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