

PRODUCT INFORMATION

Tag	C-Flag&Strep Tag
Target	FPR2
Synonyms	ALXR; FMLP-R-II; FMLPX; FPR2A; FPRH1; FPRH2; FPRH3; HM63; LXA4R
Description	Human FPR2-Strep full length protein-synthetic nanodisc
Delivery	In Stock
Uniprot ID	P25090
Expression Host	HEK293
Protein Families	Druggable Genome, GPCR, Transmembrane
Protein Pathways	Neuroactive ligand-receptor interaction
Molecular Weight	The human full length FPR2-Strep protein has a MW of 39.0 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 of reconstitution.
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	Low affinity receptor for N-formyl-methionyl peptides, which are powerful neutrophil chemotactic factors. Binding of FMLP to the receptor causes activation of neutrophils. This response is mediated via a G-protein that activates a phosphatidylinositol-calcium second messenger system. The activation of LXA4R could result in an anti-inflammatory outcome counteracting the actions of proinflammatory signals such as LTB4 (leukotriene B4). Receptor for the chemokine-like protein FAM19A5, mediating FAM19A5-stimulated macrophage chemotaxis and the inhibitory effect on TNFSF11/RANKL-induced osteoclast differentiation.
Usage	Research use only
Conjugate	Unconjugated



ELISA assay to evaluate FPR2-Strep-Nanodisc
0.2µg Human FPR2-Strep-Nanodisc per well

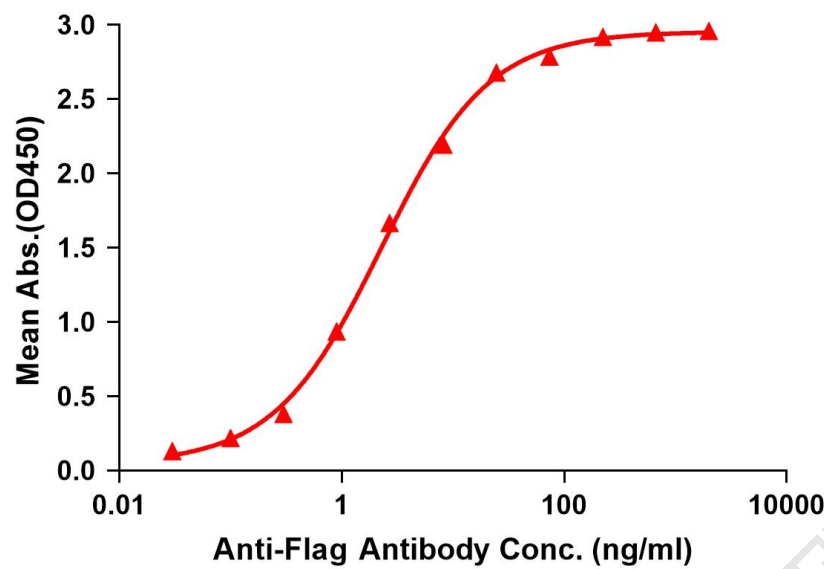


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag FPR2-Strep-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with FPR2-Strep-nanodisc is 2.281ng/ml.

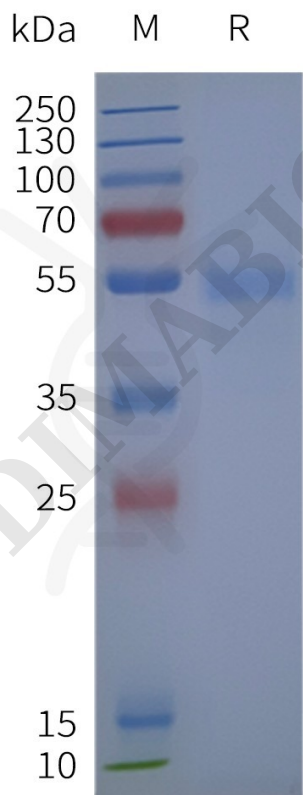


Figure 2. Human FPR2-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

