

PRODUCT INFORMATION

Tag	C-Flag&Strep Tag
Target	PTGER2
Synonyms	EP2
Description	Human PTGER2-Strep full length protein-synthetic nanodisc
Delivery	In Stock
Uniprot ID	P43116
Expression Host	HEK293
Protein Families	Druggable Genome, GPCR, Transmembrane
Protein Pathways	Neuroactive ligand-receptor interaction
Molecular Weight	The human full length PTGER2-Strep protein has a MW of 39.8 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	A receptor for prostaglandin E2, a metabolite of arachidonic acid which has different biologic activities in a wide range of tissues. Mutations in this gene are associated with aspirin-induced susceptibility to asthma.
Usage	Research use only
Conjugate	Unconjugated



**ELISA assay to evaluate PTGER2-Strep-Nanodisc**  
0.2µg Human PTGER2-Strep-Nanodisc per well

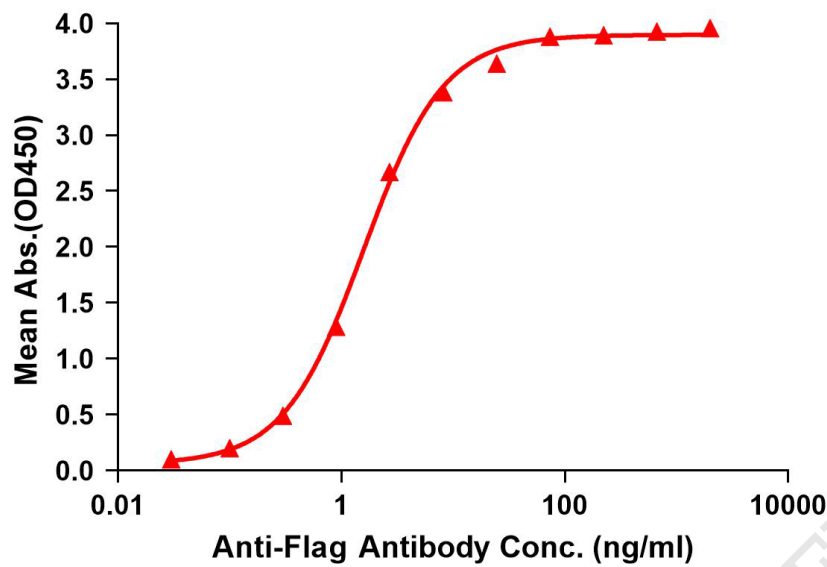


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag PTGER2-Strep-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with PTGER2-Strep-nanodisc is 1.589ng/ml.



Figure 2. Human PTGER2-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

