

PRODUCT INFORMATION

Tag	C-Flag&Strep Tag
Target	PTH1R
Synonyms	EKNS; PFE; PTHR; PTHR1
Description	Human PTH1R-Strep full length protein-synthetic nanodisc
Delivery	In Stock
Uniprot ID	Q03431
Expression Host	HEK293
Protein Families	Druggable Genome, GPCR, Transmembrane
Protein Pathways	Neuroactive ligand-receptor interaction
Molecular Weight	The human full length PTH1R-Strep protein has a MW of 66.4 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.
Sterility	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.
Background	This protein is a receptor for parathyroid hormone (PTH) and for parathyroid hormone-like hormone (PTH1H). The activity of this receptor is mediated by G proteins which activate adenylyl cyclase and also a phosphatidylinositol-calcium second messenger system. Defects in this receptor are known to be the cause of Jansen's metaphyseal chondrodysplasia (JMC), chondrodysplasia Blomstrand type (BOCD), as well as enchondromatosis.
Usage	Research use only
Conjugate	Unconjugated



ELISA assay to evaluate PTH1R-Strep-Nanodisc 0.2 μ g Human PTH1R-Strep-Nanodisc per well

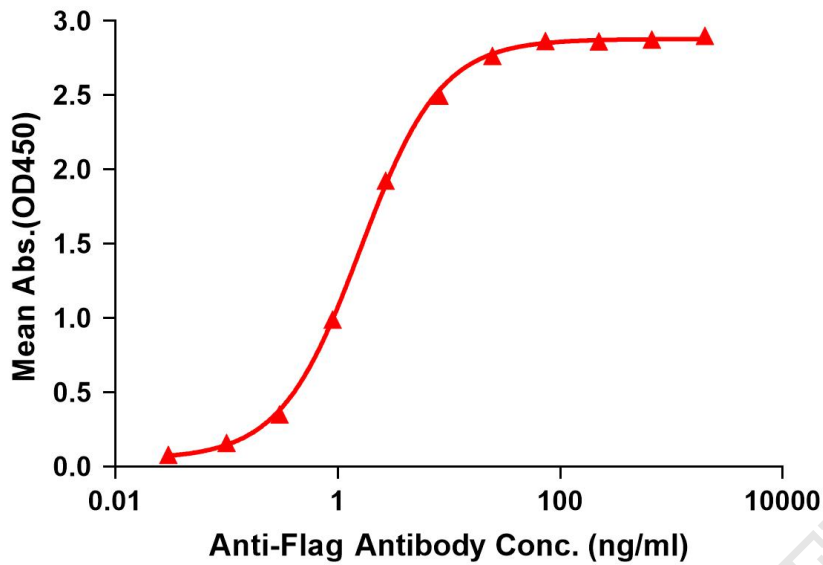


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag PTH1R-Strep-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with PTH1R-Strep-nanodisc is 1.603ng/ml.



Figure 2. Human PTH1R-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

