

PRODUCT INFORMATION

Tag	C-Flag Tag
Target	CALCR
Synonyms	CRT; CT-R; CTR; CTR1
Description	Human CALCR full length protein-synthetic nanodisc
Delivery	In Stock
Uniprot ID	P30988
Expression Host	HEK293
Protein Families	Druggable Genome, GPCR, Transmembrane
Protein Pathways	Neuroactive ligand-receptor interaction
Molecular Weight	The human full length CALCR protein has a MW of 55.3 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	The protein is a high affinity receptor for the peptide hormone calcitonin and belongs to a subfamily of seven transmembrane-spanning G protein-coupled receptors. The encoded protein is involved in maintaining calcium homeostasis and in regulating osteoclast-mediated bone resorption. Polymorphisms in this gene have been associated with variations in bone mineral density and onset of osteoporosis.
Usage	Research use only
Conjugate	Unconjugated



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

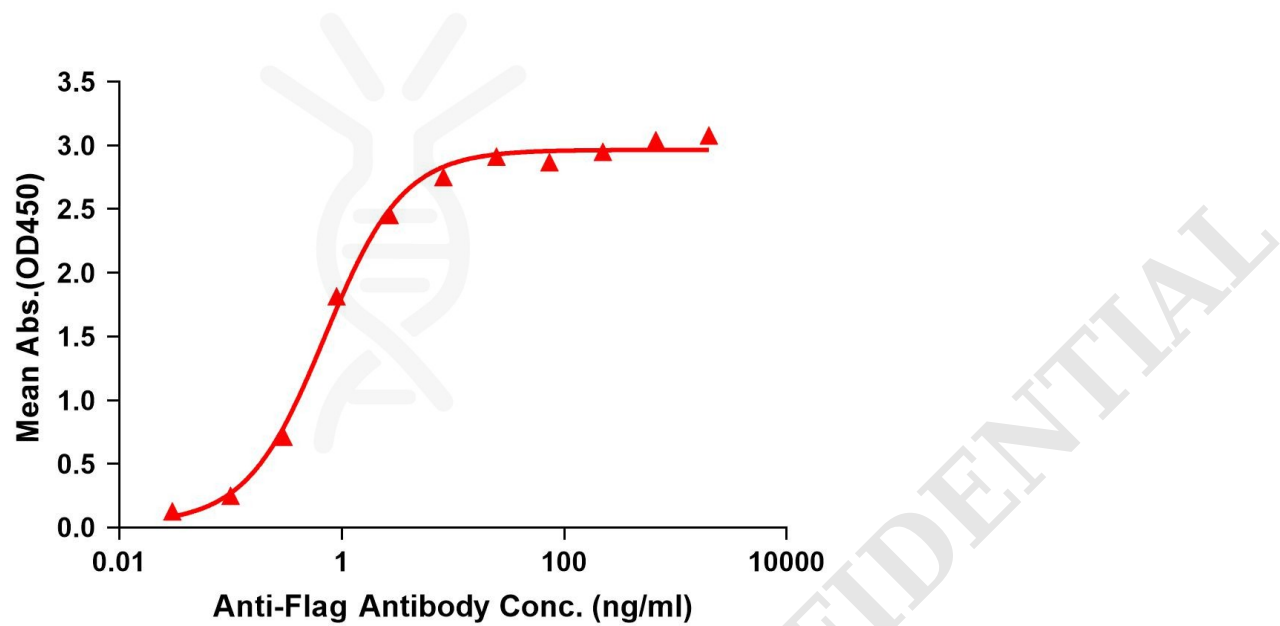


Figure 1. Elisa plates were pre-coated with Flag Tag CALCR-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with CALCR-Nanodisc is 0.706ng/ml.

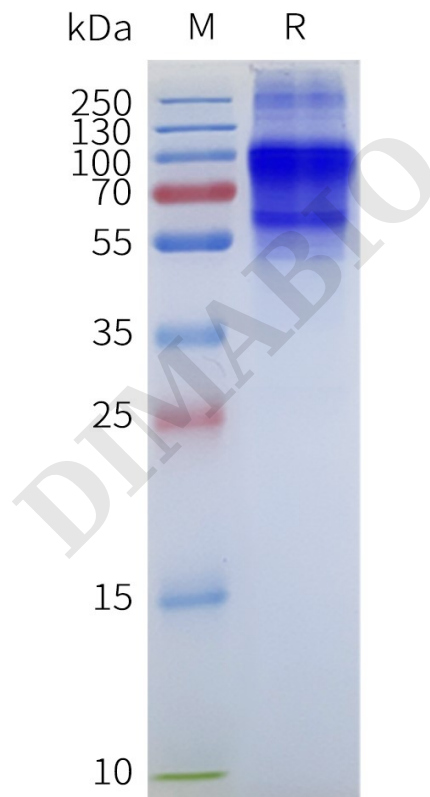


Figure 2. Human CALCR-Nanodisc, Flag Tag on SDS-PAGE

