

PRODUCT INFORMATION

Tag	C-Flag Tag
Expression Host	HEK293
Target	MC4R
Synonyms	BMIQ20
Description	Human MC4R full length protein-synthetic nanodisc
Uniprot ID	P32245
Protein Families	Druggable Genome, GPCR, Transmembrane
Protein Pathways	Neuroactive ligand-receptor interaction
Molecular Weight	The human full length MC4R protein has a MW of 36.9 kDa
Delivery	In Stock
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.
Sterility	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.
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 membrane-bound receptor and member of the melanocortin receptor family. The encoded protein interacts with adrenocorticotrophic and MSH hormones and is mediated by G proteins. This is an intronless gene. Defects in this gene are a cause of autosomal dominant obesity.
Usage	Research use only
Conjugate	Unconjugated



ELISA assay to evaluate MC4R-Nanodisc 0.2 μ g Human MC4R-Nanodisc per well

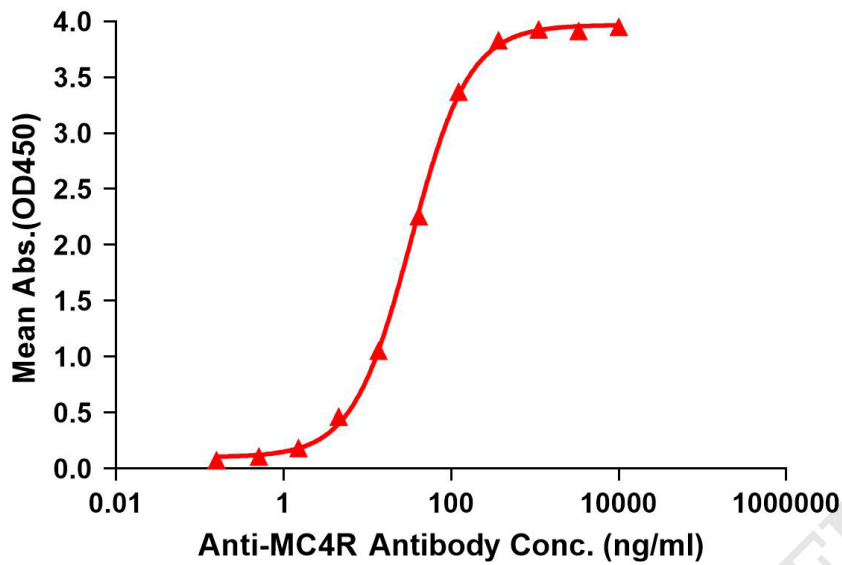


Figure 1. Elisa plates were pre-coated with Flag Tag MC4R-Nanodisc (0.2 μ g/per well). Serial diluted anti-MC4R monoclonal antibody (DME101294) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-MC4R monoclonal antibody binding with MC4R-Nanodisc is 33.21ng/ml.

kDa M R

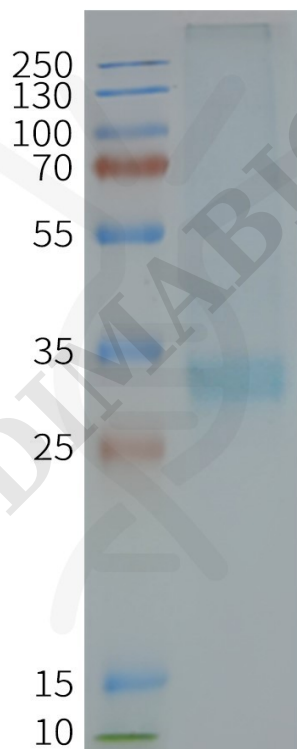


Figure 2. Human MC4R-Nanodisc, Flag Tag on SDS-PAGE

