

PRODUCT INFORMATION

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| Tag | C-Flag Tag |
| Target | MC4R |
| Synonyms | BMIQ20 |
| Description | Human MC4R full length protein-synthetic nanodisc |
| Delivery | In Stock |
| Uniprot ID | P32245 |
| Expression Host | HEK293 |
| 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 |
| 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 | 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

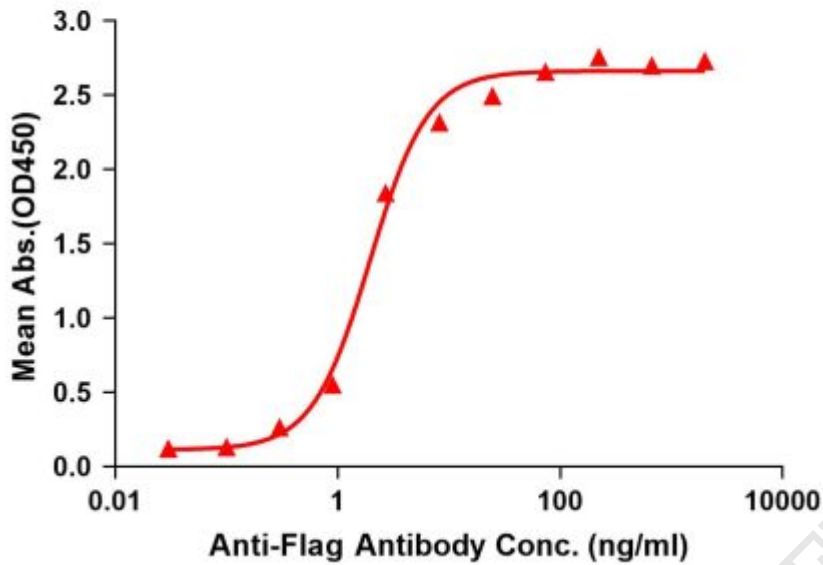


Figure1. Elisa plates were pre-coated with Flag Tag MC4R-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with MC4R-Nanodisc is 1.957ng/ml.



Figure2. Human MC4R-Nanodisc, Flag Tag on SDS-PAGE

