

HUMAN MC4R FULL LENGTH PROTEIN

Cat.#: 11103

Product Name: Human MC4R Full Length Protein

Size : 10 µg; 50 µg and 100 µg

Synonyms: BMIQ20

Target: MC4R

UNIPROT ID: P32245

Description: Human MC4R Full Length Protein-Synthetic Nanodisc

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.

Species/Host: HEK293

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.

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.

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

ELISA assay to evaluate MC4R-Nanodisc 0.2µg Human MC4R-Nanodisc per well

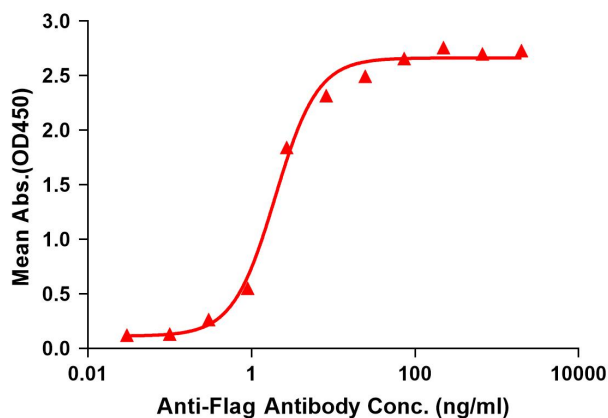


Figure 1. Elisa plates were pre-coated with Flag Tag MC4R-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with MC4R-Nanodisc is 1.957ng/ml.



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