Cat. No. FLP120182A



PRODUCT INFORMATION

C-Flag&Strep Tag Tag

MC2R **Target Synonyms ACTHR**

Human BRIL-MC2R-Strep full length protein-**Description**

synthetic nanodisc

Delivery In Stock **Uniprot ID** Q01718 **Expression Host HEK293**

Formulation &

Reconstitution

Storage & Shipping

Background

Protein Families Druggable Genome, GPCR, Transmembrane

Protein Pathways Neuroactive ligand-receptor interaction

The human full length MC2R-Strep protein has a **Molecular Weight**

MW of 44.8 kDa 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. 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.

One member of the five-member G-protein associated melanocortin receptor family.
Melanocortins (melanocyte-stimulating hormones and adrenocorticotropic hormone) are peptides derived from pro-opiomelanocortin (POMC). MC2R

is selectively activated by adrenocorticotropic hormone, whereas the other four melanocortin receptors recognize a variety of melanocortin ligands. Mutations in MC2R can result in familial glucocorticoid deficiency. The BRIL sequence was added to the N-terminal of TAAR1 to enhance

receptor stability. BRIL is thermostabilized apocytochrome b562 with mutations M7W, H102I, R106L, PDB ID 1M6T.

Usage Research use only Conjugate Unconjugated







ELISA assay to evaluate BRIL-MC2R-Strep-Nanodisc 0.2µg Human BRIL-MC2R-Strep-Nanodisc per well

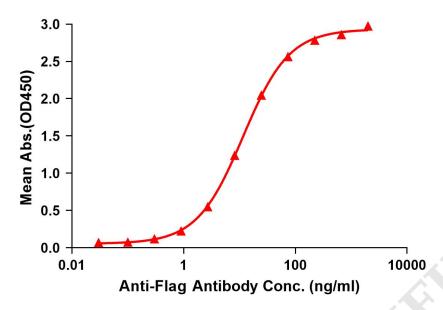


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag BRIL-MC2R-Strep-Nanodisc ($0.2\mu g/per$ well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with BRIL-MC2R-Strep-Nanodisc is 11.63ng/ml.

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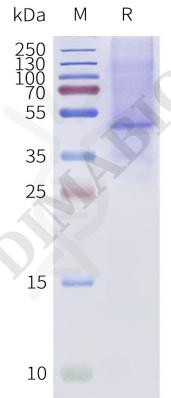


Figure 2. Human BRIL-MC2R-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

