

PRODUCT INFORMATION

C-Flag&Strep Tag Tag

MTR1A **Target**

Synonyms MEL-1A-R; MT1

Human MTR1A-Strep full length protein-synthetic **Description**

nanodisc

Delivery In Stock **Uniprot ID** P48039 **Expression Host HEK293**

Protein Families Druggable Genome, GPCR, Transmembrane

Protein Pathways Neuroactive ligand-receptor interaction

The human full length MTR1A-Strep protein has a **Molecular Weight**

MW of 39.4 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 Formulation & Reconstitution lyophilization. Please see Certificate of Analysis

for specific instructions of reconstitution. 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). Storage & Shipping

Lyophilized proteins are shipped at ambient

temperature.

One of two high affinity forms of a receptor for melatonin, the primary hormone secreted by the pineal gland. This receptor is a G-protein coupled, 7-transmembrane receptor that is responsible for melatonin effects on mammalian circadian rhythm and reproductive alterations affected by

Background day length. The receptor is an integral membrane protein that is readily detectable and localized to two specific regions of the brain. The

hypothalamic suprachiasmatic nucleus appears to

be involved in circadian rhythm while the

hypophysial pars tuberalis may be responsible for

the reproductive effects of melatonin.

Usage Research use only Conjugate Unconjugated







ELISA assay to evaluate MTR1A-Strep-Nanodisc 0.2µg Human MTR1A-Strep-Nanodisc per well

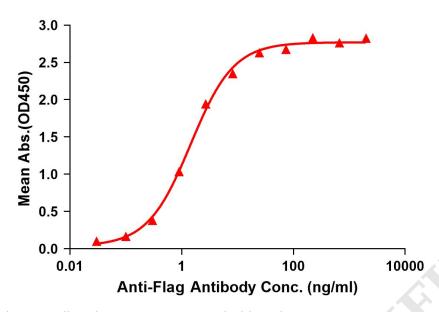


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag MTR1A-Strep-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with MTR1A-Strep-nanodisc is 1.451ng/ml.

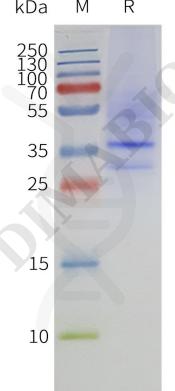


Figure 2. Human MTR1A-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

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