

PRODUCT INFORMATION

Tag C-Flag Tag

Target OPRM

Synonyms LMOR; M-OR-1; MOP; MOR; MOR1; OPRM1
Human OPRM full length protein-synthetic

nanodisc

Delivery In Stock
Uniprot ID P35372
Expression Host HEK293

Protein Families Druggable Genome, GPCR, Transmembrane

Protein Pathways Neuroactive ligand-receptor interaction

Molecular Weight

The human full length OPRM protein has a 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

ReconstitutionIlyophilization. Please see Certificate of Analysis for specific instructions. Do not use solvents with a pH below 6.5 or those containing high

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

Storage & Shipping intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).

Lyophilized proteins are shipped at ambient

témperature.

One of at least three opioid receptors in humans; the mu opioid receptor (MOR). The MOR is the principal target of endogenous opioid peptides and opioid analgesic agents such as betaendorphin and enkephalins. The MOR also has an important role in dependence to other drugs of abuse, such as nicotine, cocaine, and alcohol via its modulation of the dopamine system. The NM_001008503.2:c.118A>G allele has been

Background

NM_001008503.2:c.118A>G allele has been associated with opioid and alcohol addiction and variations in pain sensitivity but evidence for it having a causal role is conflicting. Multiple transcript variants encoding different isoforms have been found for this gene. Though the

canonical MOR belongs to the superfamily of 7transmembrane-spanning G-protein-coupled receptors some isoforms of this gene have only 6

transmembrane domains.

Usage Research use only
Conjugate Unconjugated









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

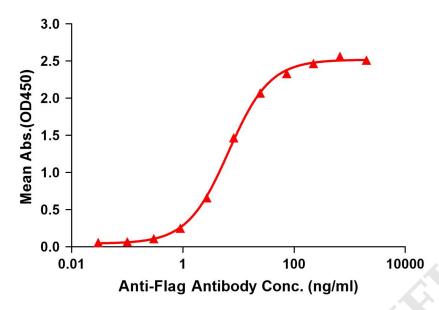


Figure 1. Elisa plates were pre-coated with Flag Tag OPRM-Nanodisc ($0.2\mu g/per$ well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with OPRM-Nanodisc is 6.655ng/ml.

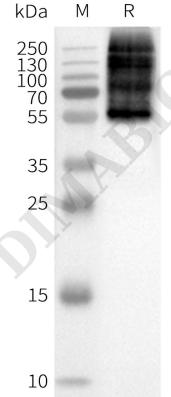


Figure 2. WB analysis of Human OPRM-Nanodisc with anti-Flag monoclonal antibody at 1/5000 dilution, followed by Goat Anti-Rabbit IgG HRP at 1/5000 dilution

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