

PRODUCT INFORMATION

C-Flag Tag Tag **OPRM Target**

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

nanodisc **Delivery** In Stock **Uniprot ID** P35372 **Expression Host HEK293**

Protein Families Druggable Genome, GPCR, Transmembrane

Protein Pathways Neuroactive ligand-receptor interaction

The human full length OPRM protein has a MW of **Molecular Weight**

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 Formulation & Reconstitution lyophilization. Please see Certificate of Analysis

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 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 beta-endorphin 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

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 7-transmembrane-spanning G-protein-coupled receptors some isoforms of this gene have only 6

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transmembrane domains.

Usage Research use only Unconjugated Conjugate



Background



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

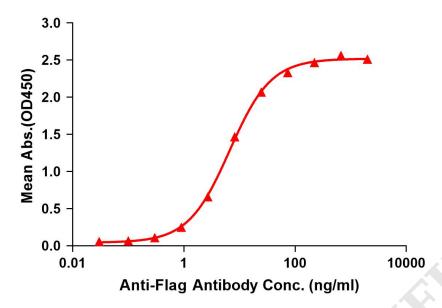


Figure 1. Elisa plates were pre-coated with Flag Tag OPRM-Nanodisc ($0.2\mu g/per$ well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with OPRM-Nanodisc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

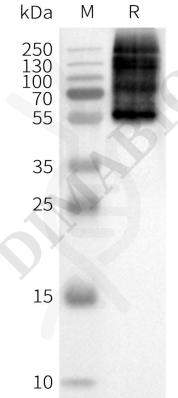


Figure 2. WB analysis of Human OPRM-Nanodisc with anti-Flag monoclonal antibody at 1/5000 dilution, followed by Goat Anti-Rabbit IgG HRP at 1/5000 dilution

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