

PRODUCT INFORMATION

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Human 5HT7R full length protein-synthetic nanodisc

Delivery Uniprot ID P34969 HEK293 **Expression Host**

Protein Families Druggable Genome, GPCR, Transmembrane

Protein Pathways Calcium signaling pathway, Neuroactive ligand-receptor interaction

Molecular Weigh The human full length 5HT7R protein has a MW of 53.6 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 of reconstitution. Formulation & Reconstitution

Storage & Shipping

Store at -20°C to -80°C for I2 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. The neurotransmitter, sentonin, is thought to play a role in various cognitive and behavioral functions. The sentonin receptor encoded by this gene belongs to the superfamily of G protein-coupled receptors and the gene is a candidate locus for involvement in autistic disorders. Three splice variants have been identified which encode proteins that differ in the length of their carboxy terminal ends.

Usage Research use only Conjugate Unconjugated

ELISA assay to evaluate 5HT7R-Nanodisc 0.2µg Human 5HT7R-Nanodisc per well

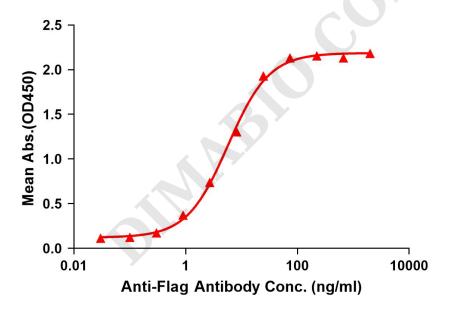


Figure 1. Elisa plates were pre-coated with Flag Tag 5HT7R-Nanodisc ($0.2\mu g/per$ well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with 5HT7R-Nanodisc is 5.739ng/ml.

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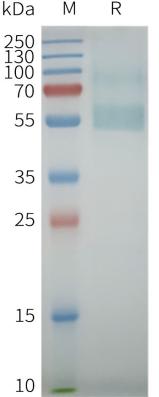


Figure 2. Human 5HT7R-Nanodisc, Flag Tag on SDS-PAGE



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