

PRODUCT INFORMATION

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|---|---|
| Tag | C-Flag Tag |
| Target | 5HT7R |
| Synonyms | 5-HT7 |
| Description | Human 5HT7R full length protein-synthetic nanodisc |
| Delivery | In Stock |
| Uniprot ID | P34969 |
| Expression Host | HEK293 |
| Protein Families | Druggable Genome, GPCR, Transmembrane |
| Protein Pathways | Calcium signaling pathway, Neuroactive ligand-receptor interaction |
| Molecular Weight | 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. 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. |
| Formulation & 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). Lyophilized proteins are shipped at ambient temperature. |
| Storage & Shipping | |
| Background | The neurotransmitter, serotonin, is thought to play a role in various cognitive and behavioral functions. The serotonin 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 disorder and other neuropsychiatric 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 0.2 μ g Human 5HT7R-Nanodisc per well

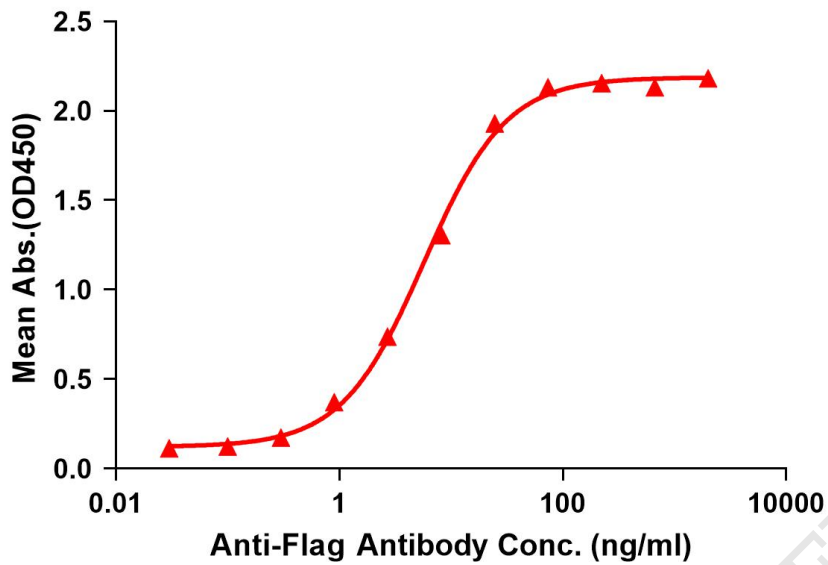


Figure1. Elisa plates were pre-coated with Flag Tag 5HT7R-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with 5HT7R-Nanodisc is 5.739ng/ml.



Figure2. Human 5HT7R-Nanodisc, Flag Tag on SDS-PAGE

