

PRODUCT INFORMATION

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| Tag | C-Flag&Strep Tag |
| Target | 5HT2A |
| Synonyms | 5-HT2A; HTR2 |
| Description | Human 5HT2A-Strep full length protein-synthetic nanodisc |
| Delivery | In Stock |
| Uniprot ID | P28223 |
| Expression Host | HEK293 |
| Protein Families | Druggable Genome, GPCR, Transcription Factors, Transmembrane |
| Protein Pathways | Calcium signaling pathway, Gap junction, Neuroactive ligand-receptor interaction |
| Molecular Weight | The human full length 5HT2A-Strep protein has a MW of 52.6 kDa |
| Formulation & Reconstitution | 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 |
| Storage & Shipping | 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. |
| Background | One of the receptors for serotonin, a neurotransmitter with many roles. Mutations in this gene are associated with susceptibility to schizophrenia and obsessive-compulsive disorder, and are also associated with response to the antidepressant citalopram in patients with major depressive disorder (MDD). MDD patients who also have a mutation in intron 2 of this gene show a significantly reduced response to citalopram as this antidepressant downregulates expression of this gene. |
| Usage | Research use only |
| Conjugate | Unconjugated |



ELISA assay to evaluate 5HT2A-Strep-Nanodisc
0.2µg Human 5HT2A-Strep-Nanodisc per well

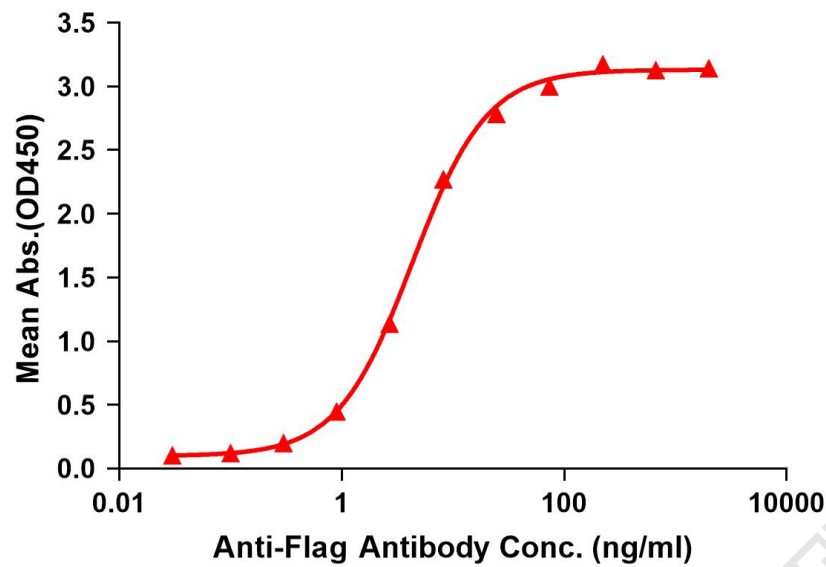


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag 5HT2A-Strep-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with 5HT2A-Strep-nanodisc is 4.320ng/ml.

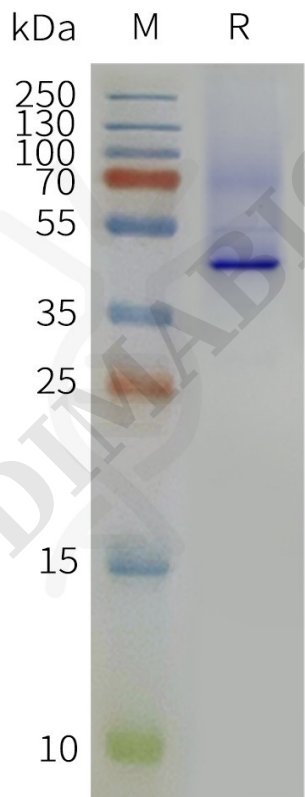


Figure 2. Human 5HT2A-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

