

## PRODUCT INFORMATION

<b>Tag</b>	C-Flag&Strep Tag
<b>Target</b>	5HT2C
<b>Synonyms</b>	5-HT1C; 5-HT2C; 5-HTR2C; 5HTR2C; HTR1C
<b>Description</b>	Human 5HT2C-Strep full length protein-synthetic nanodisc
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	P28335
<b>Expression Host</b>	HEK293
<b>Protein Families</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways</b>	Calcium signaling pathway, Gap junction, Neuroactive ligand-receptor interaction
<b>Molecular Weight</b>	The human full length 5HT2C-Strep protein has a MW of 51.8 kDa
<b>Formulation &amp; Reconstitution</b>	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.
<b>Storage&amp;Shipping</b>	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.
<b>Background</b>	The protein responds to signaling through the neurotransmitter serotonin. The mRNA of this gene is subject to multiple RNA editing events, where adenosine residues encoded by the genome are converted to inosines. RNA editing is predicted to alter the structure of the second intracellular loop, thereby generating alternate protein forms with decreased ability to interact with G proteins. Abnormalities in RNA editing of this gene have been detected in victims of suicide that suffer from depression. In addition, naturally-occurring variation in the promoter and 5' non-coding and coding regions of this gene may show statistically-significant association with mental illness and behavioral disorders.
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated



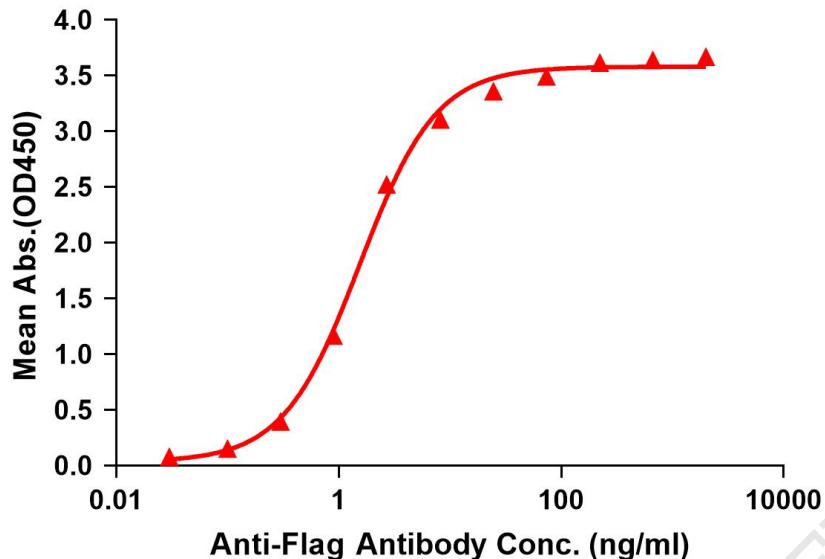
**ELISA assay to evaluate 5HT2C-Strep-Nanodisc**
0.2 $\mu$ g Human 5HT2C-Strep-Nanodisc per well

Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag 5HT2C-Strep-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 5HT2C-Strep-nanodisc is 1.549ng/ml.

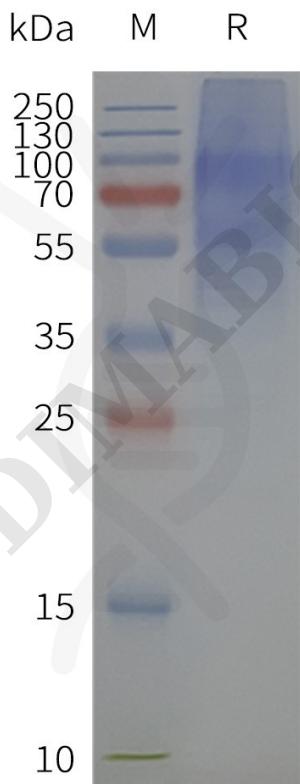


Figure 2. Human 5HT2C-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

