

PRODUCT INFORMATION

Tag	C-Flag&Strep Tag
Expression Host	HEK293
Target	5HT2A
Synonyms	5-HT2A; HTR2
Description	Human 5HT2A-Strep full length protein-synthetic nanodisc
Uniprot ID	P28223
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
Delivery	In Stock
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 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.
Sterility	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.
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 0.2 μ g Human 5HT2A-Strep-Nanodisc per well

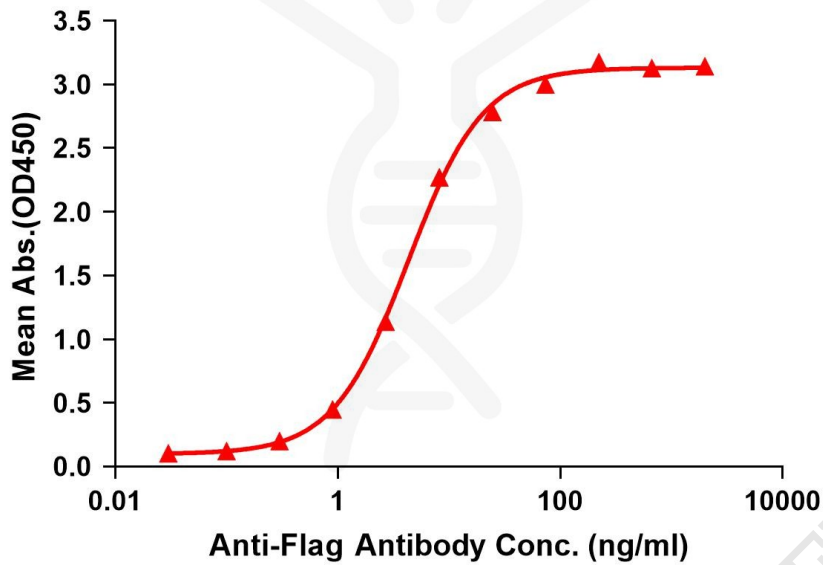


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag 5HT2A-Strep-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding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

kDa M R

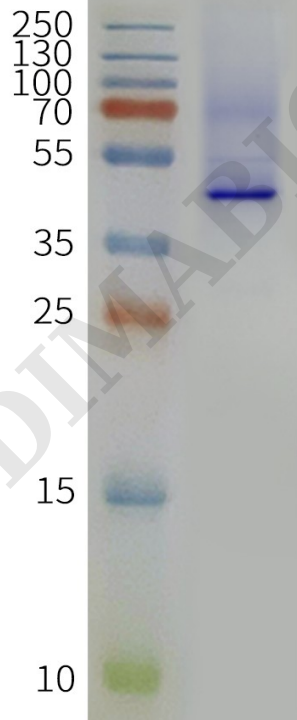


Figure 2. Human 5HT2A-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

