

PRODUCT INFORMATION

Tag	C-Flag&Strep Tag
Target	DRD1
Synonyms	DADR; DRD1A
Description	Human DRD1-Strep full length protein-synthetic nanodisc
Delivery	In Stock
Uniprot ID	P21728
Expression Host	HEK293
Protein Families	Druggable Genome, GPCR, Transmembrane
Protein Pathways	Calcium signaling pathway, Gap junction, Neuroactive ligand-receptor interaction
Molecular Weight	The human full length DRD1-Strep protein has a MW of 49.3 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	This protein is D1 subtype of the dopamine receptor. The D1 subtype is the most abundant dopamine receptor in the central nervous system. This G-protein coupled receptor stimulates adenylyl cyclase and activates cyclic AMP-dependent protein kinases. D1 receptors regulate neuronal growth and development, mediate some behavioral responses, and modulate dopamine receptor D2-mediated events.
Background	
Usage	Research use only
Conjugate	Unconjugated



ELISA assay to evaluate DRD1-Strep-Nanodisc 0.2 μ g Human DRD1-Strep-Nanodisc per well

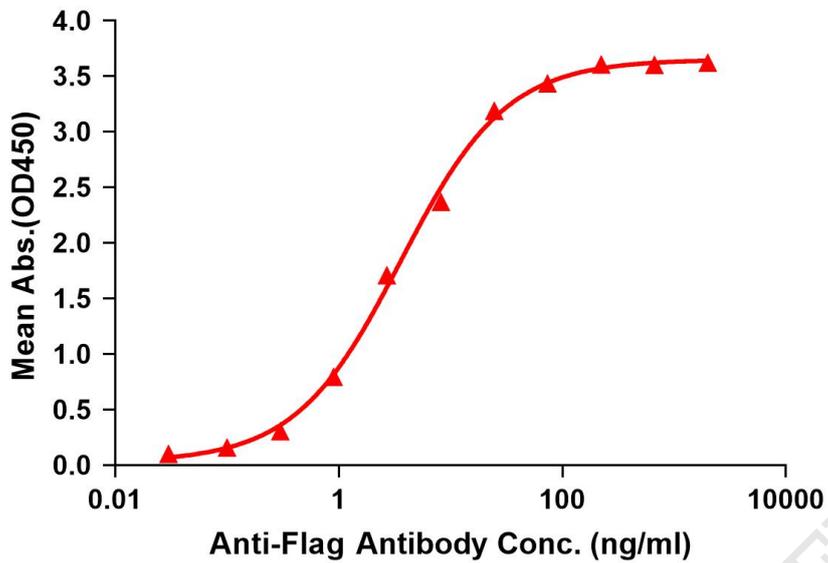


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag DRD1-Strep-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with DRD1-Strep-nanodisc is 3.600ng/ml.

kDa M R

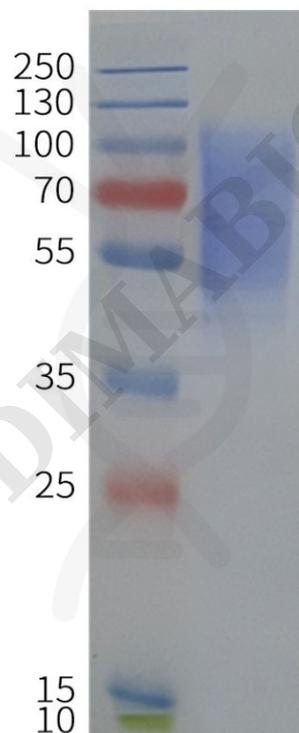


Figure 2. Human DRD1-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

